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			IRKLEGHHHDVVACDFSPDGALLATASYDTRVYIWDPHNGDILM EFGHLFPPPTPIFAGGANDRWVRSVSFSHDGLHVASLADDKMVR FWRIDEDYPVQVAPLSNGLCCAFSTDGSVLAAGTHDGSVYFWAT PRQVPSLQHLCRMSIRRVMPTQEVQELPIPSKLLEFLSYRI
5906	146	2038	REGAGSGRMASGA\YNPYIEIIEQPRQRGMRFRYKCEGRSAGSI PGEHSTDNNRTYPSIQIMNYYGKGKV\RITLVTK\NDPYKPHPH DLVGKDCRD\GYYEAEFGQE\RRP\LFFQN\LGIRCVKKKEVKE A\IITR\IKAGINPFDVP*KQLNDIEDCDLDVVRLWFRVFLPDG HGNL\TTALPPV\VSSPIYDNRAPNTAELRVCRVNKNCGSVRGG DEIFLLCDKVQKDDIEVRFVLNDWEAKGIFSQADVHRQVAIVFK TPPYCKAITEPVTVKMQLRRPSDQEVSESMDFRYLPDEKDTYGN KAKKQKTTLLFQKLCQDHVETGFRHVDQDGLELLTSGDPPTLAS QSAGITVNFPERPRPGLLGSIGEGRYFKKEPNLFSHDAVVREMP TGVSSQAESYYPSPGPISSGLSHHASMAPLPSSSWSSVAHPTPR SGNTNPLSSFSTRTLPSNSQGIPPFLRIPVGNDLNASNACIYNN ADDIVGMEASSMPSADLYGISDPNMLSNCSVNMMTTSSDSMGET DNPRLLSMNLENPSCNSVLDPRDLRQLHQMSSSSMSAGANSNTT VFVSQSDAFEGSDFSCADNSMINESGPSNSTNPNSHVFVQDSQY SGIGSMQNEQLSDSFPYEFFQV
5907	99	1873	TYLLSSWSS**NLDTKIKSQVKV/RKGHKKISWPYPQPAKQNGK KATSKVPSAPHFVHPNDHANREAELKKKWVEEMREKQQAAREQE RQKRRTIESYCQDVLRRQEEFEHKEEVLQELNMFPQLDDEATRK AYYKEFRKVVEYSDVILEVLDARDPLGCRCFQMEEAVLRAQGNK KLVLVLNKIDLVPKEVVEKWLDYLRNELPTVAFKASTQHQVKNL NRCSVPVDQASESLLKSKACFGAENLMRVLGNYCRLGEVRTHIR VGVVGLPNVGKSSLINSLKRSRACSVGAVPGITKFMQEVYLDKF IRLLDAPGIVPGPNSEVGTILRNCVHVQKLADPVTPVETILQRC NLEEISNYYGVSGFQTTEHFLTAVAHRLGKKKKGGLYSQEQAAK AVLADWVSGKISFYIPPPATHTLPTHLSAEIVKEMTEVFDIEDT EQANEDTMECLATGESDELLGDTDPLEMEIKLLHSPMTKIADAI ENKTTVYKIGDLTGYCTNPNRHQMGWAKRNVDHRPKSNSMVDVC SVDRRSVLQRIMETDPLQQGQALASALKNKKKMQKRADKIASKL SDSMMSALDLSGNADDGVGD
5908	247	975	HCGIKKRGEGSGSPSPASGGFQLGCQIPEPSLPSEEETHPHTRA HTRTLRATLTRRPPRSHSTRLRFPMPLDGDGGLASWK/PMRER* GWRRPAKAAGASLGVAATGKRGCRMSKRYLQKATKGKLLIIIFI VTLWGKVVSSANHHKAHHVKTGTCEVVALHRCCNKNKIEERSQT VKCSCFPGQVAGTTRAAPSCVDASIVEQKWWCHMQPCLEGEECK VLPDRKGWSCSSGNKVKTTRVTH
5909	1	5002	PAIPGSTIIWAPGSHSAARADGRHGSLPSQSQAPGALCGARAPP SSNLRADRSMICAQARAGKNLYHNRFLGLAAMAFPSRNSQSLRR CKEPIRYSYNPDQFHNMDLRGGPHDGVTIPRSTSDTDLVTSDSR STLMGRSSYYSIGHSQDLVIHWDIKEEVDAGDWIGMYLIDEVLS ENFLDYKNRGVNGSHRGQIIWKIDASSYFVEPETKICFKYYHGV SGALRATTPSVTVKNSAAPIFKSIGADETVQGQGSRRLISFSLS DFQAMGLKKGMFFNPDPYLKISIQPGKHSIFPALPHHGQERRSK IIGNTVNPIWQAEQFSFVSLPTDVLEIEVKDKFAKSRPIIKRFL GKLSMPVQRLLERHAIGDRVVSYTLGRRLPTDHVSGQLQFRFEI TSSIHPDDEEISLSTEPESAQIQDSPMNNLMESGSGEPRSEAPE SSESWKPEQLGEGSVPDRPGNQSIELSRPAEEAAVITEAGDQGM VSVGPEGAGELLAQVQKDIQPAPSAEELAEQLDLGEEASALLLE DGEAPASTKEEPLEEEATTQSRAGREEBEKEQEEEGDVSTLEQG EGRLQLRASVKRKSRPCSLPVSELETVIASACGDPETPRTHYIR IHTLLHSMPSAQGGSAAEEEDGAEEESTLKDSSEKDGLSEVDTV AADPSALEEDREEPEGATPGTAHPGHSGGHFPSLANGAAQDGDT HPSTGSESDSSPRQGGDHSCEGCDASCCSPSCYSSSCYSTSCYS SSCYSASCYSPSCYNGNRFASHTRFSSVDSAKISESTVFSSQDD EEEENSAFESVPDSMQSPELDPESTNGAGPWQDELAAPSGHVER SPEGLESPVAGPSNRREGECPILHNSQFVSQLPSLRPEHHHYPT IDEPLPPNWEARIDSHGRVFYVDHVNRTTTWQRPTAAATPDGMR RSGSIQQMEQLNRRYQNIQRTIATERSEEDSGSQSCEQAPAGGG

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			GGGGGSDSEAESSQSSLDLRREGSLSPVNSQKITLLLQSPAVKFITNPEFFTVLHANYSAYRVFTSSTCLKHMILKVRRDARNFERYQHNRDLVNFINMFADTRLELPRGWEIKTDQQGKSFFVDHNSRATTFIDPRIPLQNGRLPNHLTHRQHLQRLRSYSAGEASEVSRNRGASLLARPGHSLVAAIRSQHQHESLPLAYNDKIVAFLRQPNIFEMLQERQPSLARNHTLREKIHYIRTEGNHGLEKLSCDADLVILLSLFEEEIMSYVPLQAAFHPGYSFSPRCSPCSSPQNSPGLQRASARAPSPYRRDFEAKLRNFYRKLEAKGFGQGPGKIKLIIRRDHLLEGTFNQVMAYSRKELQRNKLYVTFVGEEGLDYSGPSREFFFLLSQELFNPYYGLFEYSANDTYTVQISPMSAFVENHLEWFRFSGRILG\LALIHQYLLDAFFT\RPFYKALL\RLPC\D\LSDLEYLDEEFHQSLQWMKDNNITDILDLTFTVNEEVFGQVTERELKSGGANTQVTEKNKKEYIERMVKWRVERGVVQQTEALVRGFYEVVDSRLVSVFDARELELVIAGTAEIDLNDWRNNTEYRGGYHDGHLVIRWFWAAVERFNNEQRLRLLQFVTGTSSVPYEGFAAPPWEPMGLRRFLP*KKWGKITSLPPRG\HTCLQPDWDLPTVSPRTPMLYEK\LLTA\VEETSTFGT
5910	1526	446	VAEFAAMEPGRTQIKLDPRYTADLLEVLKTNYGIPSACFSQPPTAAQLLRALGPVELALTSILTLLALGSIAIFLEDAVYLYKNTLCPIKRRTLLWKSSAPTVVSVLCCFGLWIPRSLVLVEMTITSPYAVCFYLLMLVMVEGFGGKEAVLRTHRDTPMMVHTGPCCCCCPCCPRLLLTRKKLQ\R*CWALSNTPS*R*R*PWWACFSSPTASMTQQTFLRGAQLYGSTLSSA/CSTLLALWTLGIISRQARLHLGEQNMGAKFALFQVLLILTALQPSIFSVLANGGQIACSPPYSSKTRSQVMNCHLLILETFLMTVLTRMYYRRKDHKVGYETFSSPDLDLNLKALRWMAWTMKGCCTH
5911	109	595	QLPLAPCIQGKGLEMRSPKPQSFIIRSSHSGAGLLVKNPSTPVFCGHRRGGAAFKYKPTPVVGPEQRPTGQKHMRGGVSLLSPRLECSGTISAHCNLRLPSSSNSPAPAS*LAGITGVCHHAQLIFVFLVETGFHHVGQAGLELL/NVVIHLPRPPKVLGLQA
5912	924	277	MILNKALMLGALALTTVMSPCGGEDIVADHVASYGVNLYQSYGPSGQYSHEFDGDEEFYVDLERKETVWQLPLFRRFRRFDPQFALTNIAVLKHNLNIVIKRSNSTAATNEVPEVTVFSKSPVTLGQPNTLICLVDNIFPPVVNITWLSNGHSVTEGVSETRPSSPKSDHFLLQDQVTSPSFPFE**DL*TAKVEQLGAWFEPLLKHWGAEIPTTL
5913	46	1198	QLRMAGAEGAAGRQSELEPVVSLVDVLEEDEELENEACAVLGGSDSEKCSYSQGSVKRQALYACSTCTPEGEEPAGICLACSYECHGSHKLFELYTKRNFRCDCGNSKFKNLECKLLPDKAKVNSGNKYNDNFFGLYCICKRPYPDPEDEIPDEMIQCVVCEDWFHGRHLGAIPPESGDFQEMVCQACMKRCSFLWAYAAQLAVTKIST\GMMDWCGTLME*/DDQEVIKPENGEHQDSTLKEDVPEQGKDDVREVKVEQNSEPCAGSSSESDLQTVFKNESLNAESKSGCKLQELKAKQLIKKDTATYWPLNWRSKLCTCQDCMKMYGDLDVLFLTDEYDTVLAYENKGKIAQATDRSDPLMDTLSSMNRVQQVELIC/GIQ*FED
5914	960	124	NLGGSELPPEEALFIQVASMNQRRVDFYLASIEDMLVAI/GGRNENGALSSVETYSPKTDSWSYVAGLPRFTYGHAGTIYKDFVYISGGHDYQIGPYRKNLLCYDHRTDVWEERRPMTTARGWHSMCSLGDSIYSIGGSDDNIESMERFDVLGVEAYSPQCNQWTRVAPLLHANSESGVAVWEGRIYILGGYSWENTAFSKTVQVYDREADKWSRGVDLPKAIAGGSACFIAP*SLGQRTRKRKAKARGTRTGASDPSCASWDHPHRHLPGLCRPAATS
5915	1604	703	FPGRPTRPLKLGRRRKRARIIQAPHCHSPRPRTCPPGALQAPEAPASRAEGPVAVVVNGHTEGPAPARSAPKEPPGLPRPLGSFPCPTPQEDFPALGGPCPPRMPPSPGFSAVVLLKGTPPPPPPGLVPPISKPPPGFSGLLPSPHP\PVSPAPPPPPPQK/RPRLLPAP/PGLPSPRELPG3EPSAHPVHQGLPAERRGPLQRVQEPLRGVQTGPDLRSPVLQELPGPAGGEFPEGL**AAGPAAH
5916	256	633	SPRMWEIWGPWHRWESFSLEGEWPSRIPEPSPDSTKGTSGKGCRTVTGAVHRHLNHVAGIIPWVLHSQLKPTAATAQDQWTSQQYPDHPTRLILQ*NQATADKNN*TTALLQPHQRL\VSPRMAEA
5917	1343	827	AHQILTYLEP/ICLVVNYNKILTVFLTKSVLEI*KFIHTPQTYR

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			F*NDFFGIKEVYVSRRLRKTSF/RLAVTFLEQAVVSKECVPVDQ FMEHLLPSLLSLASDPVPNVRVLLAKALRQMLLEKAYFRNAGNP HLEVIEETILALQSDRDQDVSFFAALEPKRRNIIDTAVLEKQN
5918	13	1247	EGAQVARRSRRQWRAGRCGRGRGGRRAERTGGRGPPGRPRPLP PGPARRGRRRMETPFYGDEALSGLGGGASGSGGTFASPGRLFPG APPTAAAGSMMKKDALTLSLSEQVAAALKPAPAPASYPPA\ADG APSAAPPDGLLASPDLGLLKLASPELERLIIQSNGLVTTTPTSS QFLYPKVAASEEQEFAEGFVKALEDLHKQNQLGAGRAAAAAAAA AGGPSGTATGSAPPGELAPAAAAPEAPVVA\NLSSY\AGGCRGL RGGAAT\VAFAAEPVPFPPPPPPGALGPRRP/RLALQGRRPQTV PDVP\SFGGESP\PLSPIET\DTPRRI\KAKRKRL\RNPQIRAPK PASRKLGAQSRALERESEDPS*SPEHGSLASTASLLREQVAQLK QKVLSHVNSGCQLLPQHQVPAY
5919	1	4254	TSVQGDSQGTPTSSQGSINMEHWISQAIHGSTTSTTSSSSTQSG GSGAAHRLADVMAQTHIENHSAPPDVTTYTSEHSIQVERPQGST GSRTAPKYGNAELMETGDGVPVSSRVSAKIQQLVNTLKRPKRPP LREFFVDDFEELLEVQQPDPNQPKPEGAQMLAMRGEOLGVVTNW PPSLEAALQRWGTISPKAPCLTTMDTNGKPLYILTYGKLWTRSM KVAYSILHKLGTKQEPMVRPGDRVALVFPNNDPAAFMAAFYGCL LAEVVPVPIEVPLTRKDAGSQQIGFLLGSCGVTVALTSDACHKG LPKSPTGEIPQFKGWPKLLWFVTESKHLSKPPRDWF\PHIKDAN NDTAYIEYKTCK\DGSVLGVTVTRTALLTHCQALTQACGYTEAE TIVNVLDFKKDVGLWHGILTSVMNMMHVISIPYSLMKVNPLSWI QKVCQYKAKVACVKSRDMHWALVAHRDQRDINLSSLRMLIVADG ANPWSISSCDAFLNVFQSKGLRQEVICPCASSPEALTVAIRRPT DDSNQPPGRGVLSMHGLTYGVIRVDSEEKLSVLTVQDVGLVMPG AIMCSVKPDGVPQLCRTDEIGELCVCAVATGTSYYGLSGMTKNT FEVFAMTSSGAPISEYPFIRTGLLGFVGPGGLVFVVGKMDGLMV VSGRRHNADDIVATALAVEPMKFVYRGRIAVFSVTVLHDERIVI VAEQRPDSTEEDSFQWMSRVLQAIDSIHQVGVYCLALVPANTLP KTPLGGIHLSETKQLFLEGSLHPCNVLMCPHTCVTNLPKPRQKQ PEIGPASVMVGNLVSGKRIAQASGRDLGQIEDNDQARKFLFLSE VLQWRAQTTPDHILYTLLNCRGAIANSLTCVQLHKRAEKIAVML MERGHLQDGDHVALVYPPGIDLIAAFYGCLYAGCVPITVRPPHP QNIATTLPTVKMIVEVSRSACLMTTQLICKLLRSREAAAAVDVR TWPLILDTDD*PKKRPAQICKPCNPDTLAYLDFSVSTTGMLAGV KMSHAATSAFCRSIKLQCELYPSREVAICLDPYCGLGFVLWCLC SVYSGHQSILIPPSELETNPALWLLAVSQYKVRDTFCSYSVMEL CTKGLGSQTESLKARGLDLSRVRTCVVVAEERPRIALTQSFSKL FKDLGLHPRAVSTSFGCRVNLAICLQGTSGPDPTTVYVDMRALR HDRVRLVERGSPHSLPLMESGKILPGVRIIIANPETKGPLGDSH LGEIWVHSAHNASGYFTIYGDESLQSDHFNSRLSFGDTQTIWAR TGYLGFLRRTELTDANGERHDALYVVGALDEAMELRGMRYHPID IETSVIRAHKSVTECAVFTWTNLLVVVVELDGSEQEALDLVPLV TNVVLEEHYLIVGVVVVVDIGVIPINSRGEKQRMHLRDGFLADQ LDPIYVAYNM
5920	1381	1499	QLGAVAHAGVSRIPP*LFPPLHPTFLSLWCLHHKLP/HPPGASM VRPPVVPRRPPAHISSVRQASTQVPRTVPHTQRVANIGTQTTGP SGVGCCTPGRPLLPCKCSSAAHSTYRVQEPAVHIPGQEPLTASM LAAAPLHEQKQMIGERLYPLIHDVHTQLAGKITGMLLEIDNSEL LLMLESPESLHAKIDEAVAVLQAHQAMEQPKAYMH
5921	727	157	VCPGTGGE*GLWGQLGGLPKETPLKPMDAFTGSGLKRKFDDVDV GSSVSNSDDEISSSDSADSCDSLNPPTTASFTPTSILKRQKQLR RKNVRFDQVTVYYFARRQGFTSVPSQGGSSLGMAQRHNSVRSYT LCEFAQEQEVNHREILREHLKEEKLHAKKMKLTKNGTVESVEAD GLTLDDVSDEDIDVENVEVDDYFFLQPLPTKRRRALLRASGVHR IDAEEKQELRAIRLSREECGCDCRLYCDPEACACSQAGIKCQVD RMSFPCGCSRDGCGNMAGRIEFNPIRVRTHYLHTIMKLELESKR Q\GAAQQPQ*GALPDCQLQPDRSTGL*DPSWIGSKGLSFTGKG AAATHLIILRVIENRGAEGKRK
5922	2475	495	SYSNWGLFPSVFIQVPRSRTGNLKPIFLFYSYYE\CMETLKG\T

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			CLYNATQYKVCSPRNDRPDACYNPSEPAATTVFEIRTGLLLGDT SKIITRTEEKEIPKQITLRFDACAAINSKKLEIGCGSLN*ERS* RVENKYVCHESGVCKNCAYWPCVI*AT*KKNKNDSVYLQKGEAN PSCAAGHCNPLELIITNPLDPHWKKGERVTLGINRTGLKPQVVI LIKGEVHKCSPKPVFQTFYEELNLPAPELLKKTKNLFLQLAENV IFLLNGTSCYVRGGTTIGDRWPWEA*ELVPTDPAPDIIPI*KAE ASNF*VLKTSIIRQYCIAREGKDFIIPVGKPNCIGQKLYNSTTK TIT**DLNHTEKNPFSKFSKLKTA*AHAESH*DWTVPSGLY*IC RHRAYFRLPNKWADSCVIGTIKPSFFLLPIKMGELLGFSVYASR EKKGIVIGNWKDNEWPRERIIQYYGPATWAQDGSWGYR/TP/VY MLNWIIRLQAILEIIISNETGRALTVLAWQETQMRNAIYQNRLAL DYLLVAEGGVCRKFNLTNCCLQINDQGQVVKNIVRDMTKLAHVP IQVWHKFDPESLFGKWFPAIGGFKTLIVGVLLVIRTCLLLPCVL PLLFQMIKGIVATLVHQKTSAHVNYMNHYRSISQRDSKSEDESE NSH
5923	137	638	QLCGRRGQRFRTSIKRMHPI*RTCPNTNL/IILLSQENTQIRDL QQBNRELWISLEEHQDALELIMSKYRKQMLQLMVAKKAVDAEPV LKAHQSHSAEIESQIDRICEMGEVMRKAVQVDDDQFCKIQEKLA QLELENKELRELLSISSESLQARKENSMDTASQAIK
5924	274	2146	EKGKVKDAGAEQWISLSLSCKGSWETQFSNHLNSLTPPTSVRRM PLITTVTLLKMVARHHMKLLCSKAFSTQLQQKIFLHSQMGIHHQ SVCMKLKPNTSHIISILMGQPMALVQLETLAPLTIIIQKFQTQD HMKFWKNLPLHSHHLTPSVPQTVIPKKTGSPEIKLKITKTIQNG RELFESSLCGDLLNEVQASE\Q*NQSIESRKEKRKKSNKHDSSR SEERKSHKIPKLEPEEQNRPNERVDTVSEKPREEPVLKEGSPSS ANTIFCSNNGSVHW\FKFQVGDLVWSKVGTYPWWPCMVSSDPQL EVHTKINTRGAREYHVQFFSNQPERAWVHEKRVREYKGHKQYEE LLAEATKQASNHSEKQKIRKPRPQRERAQWDIGIAHAEKALKMT REERIEQYTFIYIDKQPEEALSQAKKSVASKTEVKKTRRPRSVL NTQPEQTNAGEVASSLSSTEIRRHSQRRHTSAEEEEPPPVKIAW KTAAARKSLPASITMHKGSLDLQKCNMSPVVKIEQVFALQNATG DGKFIDQFVYSTKGIGNKTEISVRGQDRLIISTPNQRNEKPTQS VSSPEATSGSTGSVEKKQCRRSIRTRSESEKSTEVVPKKKIKKE QVGFLHVES
5925	216	1911	MMTAESREATGLSPQAAQEKDGIVIVKVEEEDEEDHMWGQDSTL QDTPPPDPEIFRQRFRRFCYQNTFGPREALSRLKELCHQWLRPE INTKEQILELLVLEQFLSILPKELQVWLQEYRPDSGEEAVTLLE DLELDLSGQQVPGQVHGPEMLARGMVPLDPVQESSSFDLHHEAT QSHFKHSSRKPRLLQSRALPAAHIPAPPHEGSPRDQAMASALFT ADSQAMVKIEDMAVSLILEEWGCQNLARRNLSRDNRQENYGSAF PQGGENRNENEESTSKAETSEDSASRGETTGRSQKEFGEKRDQE GKTGERQQKNPEEKTRKEKRDSGPAIGKDKKTITGERGPREKGK GLGRSFSLSSNFTTPEEVPTGTKSHRCDECGKCFTRSSSLIRHK IIHTGEKPYECSECGKAF\SLNS\NLVLHQRI\HTGEKPHECNE CGKAFSHSSNLILHQRIHSGEKPYECNECGKAFSQSSD\LTKHQ RIHTGEKPYECSECGKAFNRNSYLILHRRVHTREKPYKCTKCGK \AFTRSSTLTLHHRIHARERASEYSPASLDAFGAFLKSCV
5926	2	233	DRCLMLKQGSQPGSPPAT/CEPPAPPVYQAPCQSCPEPPGAHEP SDSPHHTPVHPPPEHSAACPAPATCCPPPRSSMS
5927	4146	1248	KHFSKFGSQALYQLKRPASGQNSISVMPAQKITKPAAKYGIPLA YKKYGDKKLHEKKPLQKHKQAHQTPEKRVNTGEERRKISEEAAR KRRLEFIEKEKKQKDQIISLMKAEQMKRQBKERLERINRAREQG WRNVLSAGGSGEVKAPFLGSGGTIAPSSFSSRGQYEHYHAIFDQ MQQQRAEDNEAKWKREIYGRGLPERQKGQLAVERAKQVEEFLQR KREAMQNKARAEGHMGILQNLAAMYGGRPSSSRGGKPRNKEEEV YLARLRQIRLQNFNERQQIKAKLRGEKKEANHSEGQEGSEEADM RRKK\IESLKAHANARAAVLKEQLERKRKEAYEREKKVWEEHLV AKGVKSSDVSPPLGQHETGGSPSKQQMRSVISVTSALKEVGVDS SLTDTRETSEEMQKTNNAISSKREILRRLNENLKAQEDEKGKQN LSDTFEINVHEDAKEHEKEKSVSSDRKKWEAGGQLVIPLDELTL DTSFSTTERHTVGEVIKLGPNGSPRRAWGKSPTDSVLKILGEAE

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			LQLQTELLENTTIRSEISPEGEKYKPLITGEKKVQCISHEINPS AIVDSPVETKSPEFSEASPQMSLKLEGNLEEPDDLETEILQEPS GTNKDE\SLPCTITDVWISEEKETKETQSADRITIQENEVSEDG VSSTVDQLSDIHIEPGTNDSQHSKCDVDKSVQPEPFFHKVVHSE HLNLVPQVQSVQCSPEESFAFRSHSHLPPKNKNKNSLLIGLSTG LFDANNPKMLRTCSLPDLSKLFRTLMDVPTVGDVRQDNLEIDEI EDENIKEGPSDSEDIVFEETDTDLQELQASMEQLLREQPGEEYS EEEESVLKNSDVEPTANGTDVADEDDNPSSESALNEEWHSDNSD GEIASECECDSVFNHLEELRLHLEQEMGFEKFFEVYEKIKAIHE DEDENIEICSKIVQNILGNEHQHLYAKILHLVMADGAYQEDNDE
5928	4146	1248	KHFSKFGSQALYQLKRPASGQNSISVMPAQKITKPAAKYGIPLA YKKYGDKKLHEKKPLQKHKQAHQTPEKRVNTGEERRKISEEAAR KRRLEFIEKEKKQKDQIISLMKAEQMKRQEKERLERINRAREQG WRNVLSAGGSGEVKAPFLGSGGTIAPSSFSSRGQYEHYHAIFDQ MQQQRAEDNEAKWKREIYGRGLPERQKGQLAVERAKQVEEFLQR KREAMQNKARAEGHMGILQNLAAMYGGRPSSSRGGKPRNKEEEV YLARLRQIRLQNFNERQQIKAKLRGEKKEANHSEGQEGSEEADM RRKK\IESLKAHANARAAVLKEQLERKRKEAYEREKKVWEEHLV AKGVKSSDVSPPLGQHETCGSPSKQQMRSVISVTSALKEVGVDS SLTDTRETSEEMQKTNNAISSKREILRRLNENLKAQEDEKGKQN LSDTFEINVHEDAKEHEKEKSVSSDRKKWEAGGQLVIPLDELTL DTSFSTTERHTVGEVIKLGPNGSPRRAWGKSPTDSVLKILGEAE LQLQTELLENTTIRSEISPEGEKYKPLITGEKKVQCISHEINPS AIVDSPVETKSPEFSEASPQMSLKLEGNLEEPDDLETEILQEPS GTNKDE\SLPCTITDVWISEEKETKETQSADRITIQENEVSEDG VSSTVDQLSDIHIEPGTNDSQHSKCDVDKSVQPEPFFHKVVHSE HLNLVPQVQSVQCSPEESFAFRSHSHLPPKNKNKNSLLIGLSTG LFDANNPKMLRTCSLPDLSKLFRTLMDVPTVGDVRQDNLEIDEI EDENIKEGPSDSEDIVFEETDTDLQELQASMEQLLREQPGEEYS EEEESVLKNSDVEPTANGTDVADEDDNPSSESALNEEWHSDNSD GEIASECECDSVFNHLEELRLHLEQEMGFEKFFEVYEKIKAIHE DEDENIEICSKIVQNILGNEHQHLYAKILHLVMADGAYQEDNDE
5929	3	1558	LDFSMTTQLPAYVAILLFYVSRASCQDTFTAAVYEHAAILPNAT LTPVSREEALALMNRNLDILEGAITSAADQGAHIIVTPEDAIYG WNFNRDSLYPYLEDIPDPEVNWIPCNNRNRFGQTPVQERLSCL\ AKNNSIYVVANIGDKKPCDTSDPQCPPDGRYQYNTDVVF\DSQG KLVARYHKQNLFMGENQFNVPKEPEIVTFNTTFGSFGIFTCFDI LFHDPAVTLVKDFHVDTIVFPTAWMNVLPHLSAVEFHSAWAMGM RVNFLASNIHYPSKKMTGSGIYAPNSSRAFHYDMKTEEGKLLLS QLDSHFSHSAVVNWTSYASSIEALSSGNKEFKGTVFFDEFTFVK LTGVAGNYTVCQKDLCCHLSYKMSENIPNEVYALGAFDGLHTVE GRYYLQICTLLKCKTTNLNTCGDSAETASTRFEMFSLSGTFGTQ YVFPEVLLSENQLAPGEFQVSTDGRLFSLKPTSGPVLTVTLFGR LYEKDWASNASSGLTAQARIIMLIVIAPIVCSLSW
5930	113	6082	RGNCFWIVPFTMAQRTGLEDPERYLFVDRAVIYNPATQADWTAK KLVWIPSERHGFEAASIKEERGDEVMVELAENGKKAMVNKDDIQ KMNPPKFSKVEDMAELTCLNEASVLHNLKDRYYSGLIYTYSGLF CVVINPYKNLPIYSENIIEMYRGKKRHEMPPHIYAISESAYRCM LQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKGRKDHN IPGE\LERQLLQANPILESFGNARTVQNDNSSRFGKFIRINFDV TGYIVGANIETYLLEKSRAVRQAKDERTFHIFYQLLSG\AGEHL KSDLLLEGFNNYRFLSNGYIPIPGQ\QDKGNFRGDPGEAMHIMG FSHEEILSMLKVVSSVLQFGNISFKKERNTDQASMPENTVAQKL CHLLGMNVMEFTRAILTPRIKVGRDYVQKAQTKEQADFAVEALA KATYERLFRWLVHRINKALDRTKRQGASFIGILDIAGFEIFELN SFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGL DLQPCIDLIERPANPPGVLALLDEECWFPKATDKTFVEKLVQEQ GSHSKFQKPRQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLND NVATLLHQSSDRFVAELWKDVDRIVGLDQVTGMTETAFGSAYKT KKGMFRTVGQLYKESLTKLMATLRNTNPNFVRCIIPNHEKRAGK LDPHLVLDQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILTP

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			NAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIFFRAGVLAH LEEERDLKITDIIIFFQAVCRGYLARKAFAKKQQQLSALKVLQR NCAAYLKLRHWQWRVFTKVKPLLQVTRQEEELQAKDEELLKVK EKQTKVEGELEEMERKHQQLLEEKNILAEQLQAETELFAEAEEM RARLAAKKQELEEILHDLESRVEEEEERNQILQNEKKKMQAHIQ DLEEQLDEEEGARQKLQLEKVTAEAKIKKMEEEILLLEDQNSKF IKEKKLMEDRIAECSSQLAEEEEKAKNLAKIRNKQEVMISDLEE RLKKEEKTRQELEKAKRKLDGETTDLQDQIAELQAQIDELKLQL AKKEEELQGALARGDDETLHKNNALKVVRELQAQIAELQEDFES EKASRNKAEKQKRDLSEELEALKTELEDTLDTTAAQQELRTKRE QEVAELKKALEEETKNHEAQIQDMRQRHATALEELSEQLEQAKR FKANLEKNKQGLETDNKELACEVKVLQQVKAESEHKRKKLDAQV QELHAKVSEGDRLRVELAEKASKLQNELDNVSTLLEEAEKKGIK FAKDAASLESQLQDTQELLQEETRQKLNLSSRIRQLEEEKNSLQ EQQEEEEEARKNLEKQVLALQSQLADTKKKVDDDLGTIESLEEA KKKLLKDAEALSQRLEEKALAYDKLEKTKNRLQQELDDLTVDLD HQRQVASNLEKKQ\KKFDQLLAEEKSISARYAEERDRAEAEARE KETKALSLARALEEALEAKEEFERQNKQLRADMEDLMSSKDDVG KNVHELEKSKRALEQQV\EEMRTQLEELEDELQATEDAKLRLEV NMQAMKAQFERDLQTRDEQNEEKKRLLIKQVRELEAELEDERKQ RALAVASKKKMEIDLKDLEAQIEAANKARDEVIKQLRKLQAQMK DYQRELEEARASRDEIFAQSKESEKKLKSLEARILQLQEELASS ERARRHAEQERDELADEITNSASGKSALLDEKRRLEARIAQLEE ELEEEQSNMELLNDRFRKTTLQVDTLNAELAAERSAAQKSDNAR QQLERQNKELKAKLQELEGAVKSKFKATISALEAKIGQLEEQLE QEAKERAAANKLVRRTEKKLKEIFMQVEDERRHADQYKEQMEKA NARMKQLKRQLEEAEEEATRANASRRKLQRELDDATEANEGLSR EVSTLKNRLRRGGPISFSSSRSGRRQLHLEGASLELSDDDTESK TSDVNETQPPQSE
5931	113	6082	RGNCFWIVPFTMAQRTGLEDPERYLFVDRAVIYNPATQADWTAK KLVWIPSERHGFEAASIKEERGDEVMVELAENGKKAMVNKDDIQ KMNPPKFSKVEDMAELTCLNEASVLHNLKDRYYSGLIYTYSGLF CVVINPYKNLPIYSENIIEMYRGKKRHEMPPHIYAISESAYRCM LQDREDQSILCTGESGAGKTENTKKVIQYLAHVASSHKGRKDHN IPGE\LERQLLQANPILESFGNARTVQNDNSSRFGKFIRINFDV TGYIVGANIETYLLEKSRAVRQAKDERTFHIFYQLLSG\AGEHL KSDLLLEGFNNYRFLSNGYIPIPGQ\QDKGNFRGDPGEAMHIMG FSHEEILSMLKVVSSVLQFGNISFKKERNTDQASMPENTVAQKL CHLLGMNVMEFTRAILTPRIKVGRDYVQKAQTKEQADFAVEALA KATYERLFRWLVHRINKALDRTKRQGASFIGILDIAGFEIFELN SFEQLCINYTNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGL DLQPCIDLIERPANPPGVLALLDEECWFPKATDKTFVEKLVQEQ GSHSKFQKPRQLKDKADFCIIHYAGKVDYKADEWLMKNMDPLND NVATLLHQSSDRFVAELWKDVDRIVGLDQVTGMTETAFGSAYKT KKGMFRTVGQLYKESLTKLMATLRNTNPNFVRCIIPNHEKRAGK LDPHLVLDQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILTP NAIPKGFMDGKQACERMIRALELDPNLYRIGQSKIFFRAGVLAH LEEERDLKITDIIIFFQAVCRGYLARKAFAKKQQQLSALKVLQR NCAAYLKLRHWQWRVFTKVKPLLQVTRQEEELQAKDEELLKVK EKQTKVEGELEEMERKHQQLLEEKNILAEQLQAETELFAEAEEM RARLAAKKQELEEILHDLESRVEEEEERNQILQNEKKKMQAHIQ DLEEQLDEEEGARQKLQLEKVTAEAKIKKMEEEILLLEDQNSKF IKEKKLMEDRIAECSSQLAEEEEKAKNLAKIRNKQEVMISDLEE RLKKEEKTRQELEKAKRKLDGETTDLQDQIAELQAQIDELKLQL AKKEEELQGALARGDDETLHKNNALKVVRELQAQIAELQEDFES EKASRNKAEKQKRDLSEELEALKTELEDTLDTTAAQQELRTKRE QEVAELKKALEEETKNHEAQIQDMRQRHATALEELSEQLEQAKR FKANLEKNKQGLETDNKELACEVKVLQQVKAESEHKRKKLDAQV QELHAKVSEGDRLRVELAEKASKLQNELDNVSTLLEEAEKKGIK FAKDAASLESQLQDTQELLQEETRQKLNLSSRIRQLEEEKNSLQ EQQEEEEEARKNLEKQVLALQSQLADTKKKVDDDLGTIESLEEA

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			KKKLLKDAEALSQRLEEKALAYDKLEKTKNRLQQELDDLTVDLD HQRQVASNLEKKQ\KKFDQLLAEEKSISARYAEERDRAEAEARE KETKALSLARALEEALEAKEBFERQNKQLRADMEDLMSSKDDVG KNVHELEKSKRALEQQV\EEMRTQLEELEDELQATEDAKLRLEV NMQAMKAQFERDLQTRDEQNEEKKRLLIKQVRELEAELEDERKQ RALAVASKKKMEIDLKDLEAQIEAANKARDEVIKQLRKLQAQCMK DYQRELEEARASRDEIFAQSKESEKKLKSLEAEILQLQEELASS ERARRHAEQERDELADEITNSASGKSALLDEKRRLEARIAQLEE ELEEEQSNMELLNDRFRKTTLQVDTLNAELAAERSAAQKSDNAR QQLERQNKELKAKLQELEGAVKSKFKATISALEAKIGQLEEQLE QEAKERAAANKLVRRTEKKLKEIFMQVEDERRHADQYKEQMEKA NARMKQLKRQLEEAEEEATRANASRRKLQRELDDATEANEGLSR EVSTLKNRLRRGGPISFSSSRSGRRQLHLEGASLELSDDDTESK TSDVNETQPPQSE
5932	33	572	RHLEEICFLFLQKGRKLKLSGPRWEEGKPRGTGGLWVKAEANMG FGATLAVGLTIFVLSVVTIIICFTCSCCCLYKTCRRPRPV\APP PHPP/PVVHAPYPQPPSVPPSYPGPSYQGYHTMPPQPGMPAAPY PMQYPPPYPAQPMGPPAYHETLAGGAAAPYPASQPPYNPAYMDA PKAAL
5933	1	3190	GTRKLKMADKTPGGSQKASSKTRSSDVHSSGSSDAHMDASGPSD SDMPSRTRPKSPRKHNYRNESARESLCDSPHQNLSRPLLENKLK AFSIGKMSTAKRTLSKKEQEELKKKEDEKAAAEIYEEFLAAFEG SDGNKVKTFVRGGVVNAAKEEHETDEKRGKIYKPSSRFADQKNP PNQSSNERPPSLLVIETKKPPLKKGEKEKKKSNLELFKEELKQI QEERDERHKTKGRLSRFEPPQSDSDGQRRSMDAPSRRNRSSGVL DDYAPGSHDVGDPSTT\NFYLGNI\NPQMNLKKCCCQEFGRFGP LASVKIMWPRTDEERARERNCGFVAFMNRRDAERALKNLNGKMI MSFEMKLGWGKAVPIPPHPIYIPPSMMEHTLPPPPSGLPFNAQP RERLKNPNAPMLPPPKNKEDFEKTLSQAIVKVVIPTERNLLALI HRMIEFVVREGPMFEAMIMNREINNPMFRFLFENQTPAHVYYRW KLYSILQGDSPTKWRTEDFRMFKNGSFWRPPPLNPYLHGMSEEQ ETEAFVEEPSKKGALKEEQRDKLEEILRGLTPRKNDIGDAMVFC LNNAEAAEEIVDCITESLSILKTPLPKKIARLYLVSDVLYNSSA KVANASYYRKFFETKLCQIFSDLNATYRTIQGHLQSENFKQRVM TCFRAWEDWAIYPEPFLIKLQNIFLGLVNIIEEKETEDVPDDLD GAPIEEELDGAPLEDVDGIPIDATPIDDLDGVPIKSLDDDLDGV PLDATEDSKKNEPIFKVAPSKWEAVDESELEAQAVTTSKWELFD QHEESEEEBNQNQEEESEDEEDTQSSKSEEHHLYSNPIKEEMTE SKFSKYSEMSEEKRAKLREIELKVMKFQDELESGKRPKKPGQSF QEQVEHYRDKLLQREKEKELERERERDKKDKEKLESRSKDKKEK DECTPTRKERKRRHSTSPSPSRSSSGRRVKSPSPKSERSERSER SHKESSRSRSSHKDSPRDVSKKAKRSPSGSRTPKRSRRSRSRSP KKSGKKSRSQSRSPHRSHKKSKGKTNTGRKFFKKAVTYWKCDLF LCPERSVF
5934	1	3190	GTRKLKMADKTPGGSQKASSKTRSSDVHSSGSSDAHMDASGPSD SDMPSRTRPKSPRKHNYRNESARESLCDSPHQNLSRPLLENKLK AFSIGKMSTAKRTLSKKEQEELKKKEDEKAAAEIYEEFLAAFEG SDGNKVKTFVRGGVVNAAKEEHETDEKRGKIYKPSSRFADQKNP PNQSSNERPPSLLVIETKKPPLKKGGEKEKKKKSNLELFKEELKQI QEERDERHKTKGRLSRFEPPQSDSDGQRRSMDAPSRRNRSSGVL DDYAPGSHDVGDPSTT\NFYLGNI\NPQMNLKKCCCQEFGRFGP LASVKIMWPRTDEERARERNCGFVAFMNRRDAERALKNLNGKMI MSFEMKLGWGKAVPIPPHPIYIPPSMMEHTLPPPPSGLPFNAQP RERLKNPNAPMLPPPKNKEDFEKTLSQAIVKVVIPTERNLLALI HRMIEFVVREGPMFEAMIMNREINNPMFRFLFENQTPAHVYYRW KLYSILQGDSPTKWRTEDFRMFKNGSFWRPPPLNPYLHGMSEEQ ETEAFVEEPSKKGALKEEQRDKLEEILRGLTPRKNDIGDAMVFC LNNAEAAEEIVDCITESLSILKTPLPKKIARLYLVSDVLYNSSA KVANASYYRKFFETKLCQIFSDLNATYRTIQGHLQSENFKQRVM TCFRAWEDWAIYPEPFLIKLQNIFLGLVNIIEEKETEDVPDDLD GAPIEEELDGAPLEDVDGIPIDATPIDDLDGVPIKSLDDDLDGV

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			PLDATEDSKKNEPIFKVAPSKWEAVDESELEAQAVTTSKWELFD QHEESEEEENQNQEEESEDEEDTQSSKSEEHHLYSNPIKEEMTE SKFSKYSEMSEEKRAKLREIELKVMKFQDELESGKRPKKPGQSF QEQVEHYRDKLLQREKEKELERERERDKKDKEKLESRSKDKKEK DECTPTRKERKRRHSTSPSPSRSSSGRRVKSPSPKSERSERSER SHKESSRSRSSHKDSPRDVSKKAKRSPSGSRTPKRSRRSRSRSP KKSGKKSRSQSRSPHRSHKKSKGKTNTGRKFFKKAVTYWKCDLF LCPERSVF
5935	3	4493	SYWLSGWRLSRPPRQFWAGWRGIGRFGTMAPVHGDDCEIGASAL SDSGGSFVSSRARREKKSKKGRQEALERLKKAKAGERYKYEVEDF TGVYEEVDEEQYSKLVQARQDDDWIVDDDGIGYVEDGREIFDDD LEDDALDADEKGKDGKARNKDKRNVKKLAVTKPNNIKSMFIACA GKKTADKAVDLSKDGLLGDILQDLNTETPQITPPPVMILKKKRS IGASPNPFSVHTATAVPSGKIASPVSRKEPPLTPVPLKRAEFAG DDVQVESTEEEQESGAMEFEDGDFDEPMEVEEVDLEPMAAKAWD KESEPAEEVKQEADSGKGTVSYLGSFLPDVSCWDIDQEGDSSFS VQEVQVDSSHLPLVKGADEEQVFHFYWLDAYEDQYNQPGVVFLF GKVVIESAETHVSCCVMVKNIERTLYFLPREMKIDLNTGKETGT PISMKDVYEEFDEKIATKYKIMKFKSKPVEKNYAFEIPDVPEKS EYLEVKYSAEMPQLPQDLKGETFSHVFGTNTSSLELFLMNRKIK GPCWLEVKKSTALNQPVSWCKVEAMALKPDLVNVIKDVSPPPLV VMAFSMKTMQNAKNHQNEIIAMAALVHHSFALDKAAPKPPFQSH FCVVSKPKDCIFPYAFKEVIEKKNVKVEVAATERTLLGFFLAKV HKIDPDIIVGHNIYGFELEVLLQRINVCKAPHWSKIGRLKRSNM PKLGGRSGFGERNATCGRMICDVEISAKELIRCKSYHLSELVQQ ILKTERVVIPMENIQNMYSESSQLLYLLEHTWKDA\KFILQIMC ELNVLPLALQITNIAGNIMSRTLMGGRSERNBFLLLHAFYENNY IVPDKQIFRKPQQKLGDEDEEIDGDTNKYKKGRKKGAYAGGLVL DPKVGFYDKFILLLDFNSLYPSIIQEFNICFTTVQRVASEAQKV TEDGEQEQIPELPDPSLEMGILPREIRKLVERRKQVKQLMKQQD LNPDLILQYDIRQKALKLTANSMYGCLGFSYSRFYAKPLAALVT YKGREILMHTKEMVQKMNLEVIYGDTDSIMINTNSTNLEEVFKL GNKVKSEVNKLYKLLEIDIDGVFKSLLLLKKKKYAALVVEPTSD GNYVTKQELKGLDIVRRDWCDLAKDTGNFVIGQILSDQSRDTIV ENIQKRLIEIGENVLNGSVPVSQFEINKALTKDPQDYPDKKSLP HVHVALWINSQGGRKVKAGDTVSYVICQDGSNLTASQRAYAPEQ LQKQDNLTIDTQYYLAQQIHPVVARICEPIDGIDAVLIATGWEL \DPTQFKVHHYHKDEENDALLGGPAQLTDEEKYRDCERFKCPCP TCGTENIYDNVFDGSGTDMEPSLYRCSNIDCKASPLTFTVQLSN KLIMDIRRFIKKYYDGWLICEEPTCRNRTRHLPLQFSRTGPLCP ACMKATLQPEYSDKSLYTQLCFYRYIFDAECALEKLTTDHEKDK LKKQFFTPKVLQDYRKLKNTAEQFLSRSGYSEVNLSKLFAGCAV KS
5936	1124	139	RGEEQFDAEFRRFACLGFGERLQEFSRLLRAVHRSRAWTCYLAI RMLMATCCPSPTTTACTGPWQRAPPLRLLVQKREADSSGLAFAS NSLQRRKKGLLLRPVAPLRTRPPLLISLPQDFRQVSSVIDVDLL PETHRRVRLHKHGSDRPLGFYIRDGMSVRVAPQG\LERVPGIFI SRLVRGGLAESTGLLAVSDEILEVNGIEVAGKTLNQVTDMMVAN SHN\LIVTVKPANQRNNVVRGASGRLTGPPSAGPGPAEPDSDDD SSDLVIENRQPPSSNGLSCGPPCWDLHPGCRHPGTRSSLPSLDD QEQASSGWGSRIRGDGSGFSL
5937	31	1600	PTSLLKSTVQLMCRLLQDKRYQCVYSLAEIFKVLASFYVILVIL YGLTSSYSLWWMLRSSLKQYSFEALREKSNYSDIPDVKNDFAPI LHLADQYDPLYSKRFSIFLSEVSENKLKQINLNNEWTVEKLKSK LVKNAQDKIELHLFMLNGLPDNVFELTEMEVLSLELIPEVKLPS AVSQLVNLKELRVYHSSLVVDHPALAFLEENLKILRLKFTEMGK IPRWVFHLKNLKELYLSGCVLPEQLSTMQLEGFQDLKNLRTLYL KSSLSRIPQVVTDLLPSLQKLSLDNEGSKLVVLNNLKKMVNLKS LELISCDLERIPHSIFSLNNLHELDLRENNLKTVEEIISFQHLQ NLSCLKLWHNNIAYIPAQIGALSNLEQLSLDHNNIENLPLQLFL CTKLHYLDLSYNHLTFIPEEIQYL\SNLQYFAVTNNNIEMLPDG

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			LFQCKKLQCLLLGKNSLMNLSPHVGELSNLTHREPIG\NYLETL PPELEGCQSLKRNCLIVEENLLNTLPLPVTERLQTCLDKC
5938	395	1865	YKGEGFFCNQEARGERRKKKKAMSSPNIWSTGSSVYSTPVFSQK MTVWILLLLSLYPGFTSQKSDDDYEDYASNKTWVLTPKVPEGDV TVILNNLLEGYDNKLRPDIGVKPTLIHTDMYVNSIGPVNAINME YTIDIFFAQTWYDRRLKFNSTIKVLRLNSNMVGKIWIPDTFFRN SKKADAHWITTPNRMLRIWNDGRVLYSLRLTIDAECQLQLHNFP MDEHSCPLEFSSYGYPREEIVYQWKRSSVEVGDTRSWRLYQFSF VGLRNTTEVVKTTSGDYVVMSVYFDLSRRMGYFTIQTYIPCTLI VVLSWVSFWINKDAVPARTSLGITTVLTMTTLSTIARKSLPKVS YVTAMDLFVSVCFIPVFSALVEYG\TLHYFVSNRKPSKDKDKKK KNPAPTIDIRPRSATIQMNNATHLQERDEEYGYECLDGKDCASF FCCFEDCRTGAWRHGRIHIRIAKMDSYARIFFPTAFCLFNLVYW VSYLYL
5939	66	1404	IRPGYLKEVQENSPGHRAGLEPFFDFIVSINGSRLNKDNDTLKD LLKANVEKPVKMLIYSSKTLELRETSVTPSNLWGGQGLLGVSIR FCSFDGANENVWHVLEVESNSPAALAGLRPHSDYIIGADTVMNE SEDLFSLIETHEAKPLKLYVYNTDTDNCREVIITPNSAWGGEGS LGCGIGYCYLIRIPTRPFEEGKKISLPGQMAGTPITPLKDGFTE VQLSSVNPPSLSPPGTTGIEQSLTGLSISSTP\PAVSSVLSTGV PTVP\LLPPQVNQSLTSVPPMESSYHLPGLMPFTRQGLPNLPQ PSTFNLPR\PTHSWPGVGLYQEFVKPGVLPPLSSMPPRNLPG\I APLPLPSEFLPSFPLVPESSSAASSGELLSSLPPTSNAPSDPAT TTAKADAASSLTVDVTPPTAKAPTTVEDRVGDSTPVSEKPVSAA VDANASESP
5940	145	717	RRSASRSASPRQSAGTAVTTGTRAGGTCLAAAHHRMRWRADGRS LEKLPVHMGLVITEVEQEPSFSDIASLVVWCMAVGISYISVYDH QGIFKRNNSRLMDEILKQQQELLGLDCSKYSPEFANSNDKDDQV LNCHLAVKVLSPEDGKADIVRAAQDFCQLVAQKQKRPTDLDVDT LA\VYLVQMVVLILI
5941	13	6147	MCLGRMGASSPRSPEPVGPPAPGLPFCCGGSLLAVVVLLALPVA WGQCNAPEW\LPFARPTNLTDEFEFPIGTYLNYECRPGYSGRPF SIICLKNSVWTGAKDRCRRKSCRNPPDPVNGMVHVIKGIQFGSQ IKYSCTKGYRLIGSSSATCIISGDTVIWDNETPICDRIPCGLPP TITNGDFISTNRENFHYGSVVTYRCNPGSGGRKVFELVGEPSIY CTSNDDQVGIWSGPAPQCIIPNKCTPPNVENGILVSDNRSLFSL NEVVEFRCQPGFVMKGPRRVKCQALNKWEPELPSCSRVCQPPPD VLHAERTQRDKDNFSPGQEVFYSCEPGYDLRGAASMRCTPQGDW SPAAPTCEVKSCDDFMGQLLNGRVLFPVNLQLGAKVDFVCDEGF QLKGSSASYCVLAGMESLWNSSVPVCEQIFCPSPPVIPNGRHTG KPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTIRCTSDPQGNG VWSSPAPRCGILGHCQAPDHFLFAKLKTQTNASDFPIGTSLKYE CRPEYYGRPFSITCLDNLVWSSPKDVCKRKSCKTPPDPVNGMVH VITDIQVGSRINYSCTTGHRLIGHSSAECILSGNAAHWSTKPPI CQRIPCGLPPTIANGDFISTNRENFHYGSVVTYRCNPGSGGRKV FELVGEPSIYCTSNDDQVGIWSGPAPQCIIPNKCTPPNVENGIL VSDNRSLFSLNEVVEFRCQPGFVMKGPRRVKCQALNKWEPELPS CSRVCQPPPDVLHAERTQRDKDNFSPGQEVFYSCEPGYDLRGAA SMRCTPQGDWSPAAPTCEVKSCDDFMGQLLNGRVLFPVNLQLGA KVDFVCDEGFQLKGSSASYCVLAGMESLWNSSVPVCEQIFCPSP PVIPNGRHTGKPLEVFPFGKAVNYTCDPHPDRGTSFDLIGESTI RCTSDPQGNGVWSSPAPRCGILGHCQAPDHFLFAKLKTQTNASD FPIGTSLKYECRPEYYGRPFSITCLDNLVWSSPKDVCKRKSCKT PPDPVNGMVHVITDIQVGSRINYSCTTGHRLIGHSSAECILSGN TAHWSTKPPICQRIPCGLPPTIANGDFISTNRENFHYGSVVTYR CNLGSRGRKVFELVGEPSIYCTSNDDQVGIWSGPAPQCIIPNKC TPPNVENGILVSDNRSLFSLNEVVEFRCQPGFVMKGPRRVKCQA LNKWEPELPSCSRVCQPPPEILHGEHTPSHQDNFSPGQEVFYSC EPGYDLRGAASLHCTPQGDWSPEAPRCAVKSCDDFLGQLPHGRV LFPLNLQLGAKVSFVCDEGFRLKGSSVSHCVLGMRSLWNNSVP VCEHIFCPNPPAILNGRHTGTPSGDIPYGKEISYTCDPHPDRGM

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			TFNLIGESTIRCTSDPHGNGVWSSPAPRCELSVRAGHCKTPEQF PFASPTIPINDFEFPVGTSLNYECRPGYFGKMFSISCLENLVWS SVEDNCRRKSCGPPPEPFNGMVHINTDTQFGSTVNYSCNEGFRL IGSPSTTCLVSGNNVTWDKKAPICEIISCEPPPTISNGDFYSNN RTSFHNGTVVTYQCHTGPDGEQLFELVGERSIYCTSKDDQVGVW SSPPPRCISTNKCTAPEVENAIRVPGNRSFFSLTEIIRFRCQPG FVMVGSHIVQCQTNGRWGPKLPHCSRVCQPPPEILHGEHTLSHQ DNFSPGQEVFYSCEPSYDLRGAASLHCTPQGDWSPEAPRCTVKS CDDFLGQLPHGRVLLPLNLQLGAKVSFVCDEGFRLKGRSASHCV LAGMKALWNSSVPVCEQIFCPNPPAILNGRHTGTPLCDIPYGKE VSYTCDPHPDRGMTFNLIGESTIRRTSEPHGNGVWSSPAPRCEL PVGAACPHPPKIQNGHYIGGHVSLYLPGMTISYTCDPGYLLVGK GFIFCTDQGIWSQLDHYCKEVNCSFPLFMNGISKELEMKKVYHY GDYVTLKCEDGYTLEGSPWSQCQADDRWDPPLAKCTSRTHDALI VGTLSGTIFFILLIIFLSWIILKHRKGNNAHENPKEVAIHLHSQ GGSSVHPRTLQTNEENSRVLP
5942	4509	588	YLYVRMRANPLAYGISHKAYQIDPPL\RKHREQ\LVIE\VGRKL DK\AQMIRFEERTGYFSSTDLGRTASHYYIKYNTIETFNELFDA HKTEGDIFAIVSKAEEFDQIKVREEEIEELDTLLSNFCELSTPG GVENSYGKINILLQTYINRGEMDSFSLISDSAYVAQNAARIVRA LFEIALRKRWPTMTYRLLNLSKAIDKRLWGWASPLRQFSILPPH MLTRLEEKKLTVDKLKDMRKDEIGHILHHVNIGLKVKQCVHQIP SVMMEAFIQPITRTVLRVTLSIYADFTWNDQVHGTVGEPWWIWV EDPTNDHIYHSEYFLALKKQVISKEAQLLVFTIPIFEPLPSQYY IRAVSDRWLGAEAVCIINFQHLILPERHPPHTELLDLQPLPITA LGCKAYEALYNFSHFNPVQTQIFHTLYHTDCNVLLGAPTGSGKT VAAELAIFRVFNKYPTSKAVYIAPLKALVRERMDDWKVRIEEKL GKKVIELTGDVTPDMKSIAKADLIVTTPEKWDGVSRSWQNRNYV QQVTILIIDEIHLLGEERGPVLEVIVSRTNFISSHTEKPVRIVG LSTALANARDLADWLNIKQMGLFNFRPSVRPVPLEVHIQGFPGQ HYCPRMASMNKPAFQAIRSHSPAKPVLIFVSSRRQTRLTALELI AFLATEEDPKQWLNMDEREMENIIATVRDSNLKLTLAFGIGMHH AGLHERDRKTVEELFVNCKVQVLIATSTLAWGVNFPAHLVIIKG TEYYDGKTRRYVDFPITDVLQMMGRAGRPQFDDQGKAVILVHDI KKDFYKKFLYEPFPVESSLLGVLSDHLNAEIAGGTITSKQDALD YITWTYFFRRLIMNPSYYNLGDVSHDSVNKFLSHLIEKSLIELE LSYCIEIGEDNRSIEPLTYGRIASYYYLKHQTVKMFKDRLKPEC STEELLSILSDAEEYTDLPVRHNEDHMNSELAKCLPIESNPHSF DSPHTKAHLLLQAHLSRAMLPCPDYDTDTKTVLDQALRVCQAML DVAANQGWLVTVLNITNLIQMVIQGRWLKDSSLLTLPNIENHHL HLFKKWKPIMKGPHARGRTSIECLPELIHACGGKDHVFSSMVES ELHAAKTKQAWNFLSHLPEINVGISVKGSWDDLVEGHNELSVST LTADKRDDNKWIKLHADQEYVLQVSLQRVHFGFHKGKPESCAVT PRFPKSKDEGWFLILGEVDKRELIALKRVGYIRNHHVASLSFYT PEIPGRYIYTLYFMSDCYLGLDQQYD/NLSQRYTSESFCTGQHQ GL
5943	1	2274	DKPTRHKTYLSSSWAKMAAAEGPVGDGELWQTWLPNHVVFLRLR EGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGLGGELFLWD GEDSSFLVVRLRGPSGGG\EEPALSQYQRLLCINPPLFEIYQVL LSPTQHHVALIGIKGLMVLELPKRWGKNSEFEGGKSTVNCSTTP VAERFFTSSTSLTLKHAAWYPSEILDPHVVLLTSDNVIRIYSLR EPQTPTNVIILSEAEEESLVLNKGRAYTASLGETAVAFDFGPLA AVPKTLFGQNGKDEVVAYPLYILYENGETFLTYISLLHSPGN/I WKAVGSIAHAS\AAEDNYGYDACAVLCLPCVPNILVIATESGML YHCVVLEGEEEDDHTSEKSWDSRIDLIPSLYVFECVELELALKL ASGEDDPFDSDFSCPVKLHRDPKCPSRYHCTHEAGVHSVGLTWI HKLHKFLGSDEEDKDSLQELSTEQKCFVEHILCTKPLPCRQPAP IRGFWIVPDILGPTMICITSTYECLIWPLLSTVHPASPPLLCTR EDVEVAESPLRVLAETPDSFEKHIRSILQRSVANPAFLKASEKD IAPPPEECLQLLSRATQVFREQYILKQDLAKEEIQRRVKLLCDQ KKKQLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMK

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			KLLHSFHSELPVLSDSERDMKKELQLIPDQLRHLGNAIKQVTMK KDYQQQKMEKVLSLPKPTIILSAYQRKCIQSILKEEGEHIREMV KQINDIRNHVNF
5944	167	3428	FSIATFTDEPEVLTEPPSATTTTTIGISATWTTLAGSHGKRNNT ITTTSSKRKNRKNKITPENVQIIFDDPLPISYSQPEKVNGESKS SSTSESGDSDNMRISSCSDESSNSNSSRKSDNHSPAVVTTTVSS KKQPSVLVTFPKEERKSVSGKASIKLSETISEGTSNSLSTCTKS GPSPLSSPNGKLTVASPKRGQKREEGWKEVVRRSKKVSVPSTVI SRVIGRGGCNINAIREFTGAHIDIDKQKDKTGDRIITIRGGTES TRQATQLINALIKDPDKEIDELIPKNRLKSSSANSKIGSSAPTT TAANTSLMGIKMTTVALSSTSQTATALTVPAISSASTHKTIKNP VN\NVRPGFPVSFP\LAYPPPQFAHALLAAQTFQQIRPPRLPMT HFGGTFPPAQSTWGPFPVRPLSPARATNSPKPHMVPRHSNQNSS GSQVNSAGSLTSSPTTTTSSSASTVPGTSTNGSPSSPSVRRQLF VTVVKTSNATTTTVTTTASNNNTAPTNATYPMPTAKEHYPVSSP SSPSPPAQPGGVSRNSPLDCGSASPNKVASSSEQEAGSPPVVET TNTRPPNSSSSSGSSSAHSNQQQPPGSVSQEPRPPLQQSQVPPP EVRMTVPPLATSSAPVAVPSTAPVTYPMPQTPMGCPQPTPKMET PAIRPPPHGTTAPHKNSASVQNSSVAVLSVNHIKRPHSVPSSVQ LPSTLSTQSACQNSVHPANKPIAPNFSAPLPFGPFSTLFENSPT SAHAFWGGSVVSSQSTPESMLSGKSSYLPNSDPLHQSDTSKAPG FRPPLQRPAPSPSGIVNMDSPYGSVTPSSTHLGNFASNISGGQM YGPGAPLGGAPAAANFNRQHFSPLSLLTPCSSASNDSSAQSVSS GVRAPSPAPSSVPLGSEKPSNVSQDRKVPVPIGTERSARIRQTG TSAPSVIGSNLSTSVGHSGIWSFEGIGGNQDKVDWCNPGMGNPM IHRPMSDPGVFSQHQAMERDSTGIVTPSGTFHQHVPAGYMDFPK VGGMPFSVYGNAMIPPVAPIPDGAGGPIFNGPHAADPSWNSLIK MVSSSTENNGPQTVWTGPWAPHMNSVHMNQLG
5945	1461	197	GVTHLFLFGKRKLRNGIAEDLKGQADFFFLLVSEAVVATGSPRA WLTCLILPLPGIIFSVLPKAMSRPLLITFTPATDPSDLWKDGQQ QPQPEKPESTLDGAAARAFYEALIGDESSAPDSQRSQTEPARER KRKRRIMKAPAAEAVAEGASGRHGQGRSLEAEDKMTHRILRAA QEGDLPELRRLLEPHEAGGAGGNINARDAFWWTPLMCAARAGQG AAVSYLLGRGAAWVGVCELSGRDAAQLAEEAGFPEVARMVRESH GETRSPENRSPTPSLQYCENCDTHFQDSNHRTSTAHLLSLSQGP QPPNLPLGVPISSPGFKLLLRGGWEPGMGLGPRGEGRANPIPTV LKRDQEGLGYRSAPQPRVTHFPAWDTRAVAGRE\TPPRVATLSW REERRREE\KDRAWERDLRTYMNLEF
5946	541	1666	ILGSYSSIQPEEYS\SVVC\EVVLQDLLA\YVSPK\HSYLRDLP SEGSPQRVNSIDFV\EL\EHLQPDVLVHAVLRVVDF/TILTEAV YSYRGQKQKKVMLTVEQAQDQHYALVLWGPGAAW\YPQLQRKKG YIWEFKYLFVQCNYTLENLELHTTPWSSCECLFDDDIRAITFKA KFQKSAPSFVKISDLATHLEDKCSGVVLIKAQISELAFPITASQ KIALNAHSSLKSIFSSLPNIVYTGCAKCGLELETDENRIYKQCF SCLPFTMKKIYYRPALMTAIDGRHDVCIRVESKLIEKILLNISA DCLNRVIVPSSEITYGMVVADLFHSLLAVSAEPCVLKIQSLFVL DENSYPLQQDFSLLDFYPDIVKHGANARL
5947	3	1317	RGIPDRRRRGPIGRVNMDLENKVKKMGLGHEQGFGAPCLKCKEK CEGFELHFWRKICRNC\NVAKKSM/TVLLSNEEDRKVGKLFEDT KYTTLIAKLKSDGIPMYKRNVMILTNPVAAKKNVSINTVTYEWA PPVQNQALARQYMQMLPKEKQPVAGSEGAQYRKKQLAKQLPAHD QDPSKCHELSPREVKEMEQFVKKYKSEALGVGDVKLPCEMDAQG PKQMNIPGGDRSTPAAVGAMEDKSAEHKRTQYSCYCCKLSMKEG DPAIYAERAGYDKLWHPACFVCSTCHELLVDMIYFWKNEKLYCG RHYCDSEKPRCAGCDELIFSNEYTQAENQNWHLKHFCCFDCDSI LAGEIYVMVNDKPVCKPCYVKNHAVVCQGCHNAIDPEVQRVTYN NFSWHASTECFLCSCCSKCLIGQKFMPVEGMVFCSVECKKRMS
5948	39	3370	YRERYPVSGGSVLRSALEVCWDFLSGLTEGSLLPEGFFSGPIDQ GNHYQMRRKGRCHRGSAARHPSSPCSVKHSPTRETLTYAQAQRM VEIEIEGRLHRISIFDPLEIILEDDLTAQEMSECNSNKENSERP PVCLRTKRHKNNRVKKKNEALPSAHGTPASASALPEPKVRIVEY

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			SPPSAPRRPPVYYKFIEKSAEELDNEVEYDMDEEDYAWLEIVNE KRKGDCVPAVSQSMFEFLMDRFEKESHCENQKQGEQQSLIDEDA VCCICMDGECQNSNVILFCDMCNLAVHQECYGVPYIPEGQWLC/ RAHCLQSRARPADCVLCPNKGGAFKKTDDDRWGHV\VCALW\IP E\VGFANTVFIEPIDGVRNIPPARWKLT\CNLCKEKGR/VGACI QCHKANCYTAFHVTCAQKAGLYMKMEPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMKNGVCRKESSVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPPQRLNRIANQVAIQRKKQ FVERAHSYWLLKRLSRNGAPLLRRLQSSLQSQRSSQQRENDEEM KAAKEKLKYWQRLRHDLERARLLIELLRKREKLKREQVKVEQVA MELRLTPLTVLLRSVLDQLQDKDPARIFAQPVSLKEVPDYLDHI KHPMDFATMRKRLEAQGYKNLHEFEEDFDLIIDNCMKYNARDTV FYRAAVRLRDQGGVVLRQARREVDSIGLEEASGMHLPERPAAAP RRPFSWEDVDRLLDPANRAHLGLEEQLRELLDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLSQQHSQPLPTGPGLEGFEEDGAAL GPEAGEEVLPRLETLLQPRKRSRSTCGDSEVEEESPGKRLDAGL TNGFGGARSEQEPGGGLGRKATPRRRCASESSISSSNSPLCDSS FNAPKCGRGKPALVRRHTLEDRSELISCIENGNYAKAARIAAEV GQSSMWISTDAAASVLEPLKVVWAKCSGYPSYPALIIDPKMPRV PGHHNGVTIPAPPLDVLKIGEHMQTKSDEKLFLVLFFDNKRSWQ WLPKSKMVPLGIDETIDKLKMMEGRNSSIRKAVRIAFDRAMNHL SRVHGEPTSDLSDID
5949	39	3370	YRERYPVSGGSVLRSALEVCWDFLSGLTEGSLLPEGFFSGPIDQ GNHYQMRRKGRCHRGSAARHPSSPCSVKHSPTRETLTYAQAQRM VEIEIEGRLHRISIFDPLEIILEDDLTAQEMSECNSNKENSERP PVCLRTKRHKNNRVKKKNEALPSAHGTPASASALPEPKVRIVEY SPPSAPRRPPVYYKFIEKSAEELDNEVEYDMDEEDYAWLEIVNE KRKGDCVPAVSQSMFEFLMDRFEKESHCENQKQGEQQSLIDEDA VCCICMDGECQNSNVILFCDMCNLAVHQECYGVPYIPEGQWLC/ RAHCLQSRARPADCVLCPNKGGAFKKTDDDRWGHV\VCALW\IP E\VGFANTVFIEPIDGVRNIPPARWKLT\CNLCKEKGR/VGACI QCHKANCYTAFHVTCAQKAGLYMKMEPVKELTGGGTTFSVRKTA YCDVHTPPGCTRRPLNIYGDVEMKNGVCRKESSVKTVRSTSKVR KKAKKAKKALAEPCAVLPTVCAPYIPPQRLNRIANQVAIQRKKQ FVERAHSYWLLKRLSRNGAPLLRRLQSSLQSQRSSQQRENDEEM KAAKEKLKYWQRLRHDLERARLLIELLRKREKLKREQVKVEQVA MELRLTPLTVLLRSVLDQLQDKDPARIFAQPVSLKEVPDYLDHI KHPMDFATMRKRLEAQGYKNLHEFEEDFDLIIDNCMKYNARDTV FYRAAVRLRDQGGVVLRQARREVDSIGLEEASGMHLPERPAAAP RRPFSWEDVDRLLDPANRAHLGLEEQLRELLDMLDLTCAMKSSG SRSKRAKLLKKEIALLRNKLSQQHSQPLPTGPGLEGFEEDGAAL GPEAGEEVLPRLETLLQPRKRSRSTCGDSEVEEESPGKRLDAGL TNGFGGARSEQEPGGGLGRKATPRRRCASESSISSSNSPLCDSS FNAPKCGRGKPALVRRHTLEDRSELISCIENGNYAKAARIAAEV GQSSMWISTDAAASVLEPLKVVWAKCSGYPSYPALIIDPKMPRV PGHHNGVTIPAPPLDVLKIGEHMQTKSDEKLFLVLFFDNKRSWQ WLPKSKMVPLGIDETIDKLKMMEGRNSSIRKAVRIAFDRAMNHL SRVHGEPTSDLSDID
5950	1166	373	ESRSLTMSTSQPGACPCQGAASRPAILYALLSSSLKAVPRPRSR CLCRQHRPVQLCAPHRTCREALDVLAKTVAFLRNLPSFWQLPPQ DQRRLLQGCWGPLFLLGLAQDAVTFEVAEAPVPSILKKILLEEP SSSGGSGQLPDRPQPSLAAVQWLQCCLESFWSLELSPKE\YACL KGPILFNPDVPGLQAASHIGHLQQEAHWVLCEVLEPWCPAAQGR LTRVLLTASTLKSIPTSLLGDLFFRPIIGDVDIAGLLGDMLLLR
5951	143	5449	WNVKPSLLVVQLFKFSDKEEHEQNDSISGKTGETGVEEMIATRK VEQDSKETVKLSHEDDHILEDAGSSDISSDAACTNPNKTENSLV GLPSCVDEVTECNLELKDTMGIADKTENTLERNKIEPLGYCEDA ESNRQLESTEFNKSNLEVVDTSTFGPESNILENAICDVPDQNSK QLNAIESTKIESHETANLQDDRNSQSSSVSYLESKSVKSKHTKP VIHSKQNMTTDAPKKIVAAKYEVIHSKTKVNVKSVKRNTDVPES QQNFHRPVKVRKKQIDKEPKIQSCNSGVKSVKNQAHSVLKKTLQ

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			DQTLVQIFKPLTHSLSDKSHAHPGCLKEPHHPAQTGHVSHSSQK QCHKPQQQAPAMKTNSHVKEELEHPGVEHFKEEDKLKLKKPEKN LQPRQRRSSKSFSLDEPPLFIPDNIATIRREGSDHSSSFESKYM WTPSKQCGFCKKPHGNRFMVGCGRCDDWFHGDCVGLSLSQAQOM GEEDKEYVCVKCCAEEDKKTEILDPDTLENQATVEFHSGDKTME CEKLGLSKHTTNDRTKYIDDTVKHKVKILKRESGEGRNSSDCRD NEIKKWQLAPLRKMGQPVLPRRSSEEKSEKIPKESTTVTCTGEK ASKPGTHEKQEMKKKKV\EKGVLNVHPAASASKPSADQIRQSVR HSLKDILMKRLTDSNLKVPEEKAAKVATKIEKELFSFFRDTDAK YKNKYRSLMFNLKDPKNNILFKKVLKGEVTPDHLIRMSPEELAS KELAAWRRRENRHTIEMIEKEQREVERRPITKITHKGEIEIESD APMKEQEAAMEIQEPAANKSLEKPEGSEK\RKEEVDSMSKDTTS QHRQHLFDLNCKICIGRMAPPVDDLSPKKVKVVVGVARKHSDNE AESIADALSSTSNILASEFFEEEKQESPKSTFSPAPRPEMPGTV EVESTFLARLNFIWKGFINMPSVAKFVTKAYPVSGSPEYLTEDL PDSIQVGGRISPQTVWDYVEKIKASGTKEICVVRFTPVTEEDQI SYTLLFAYFSSRKRYGVAANNMKQVKDMYLIPLGATDKIPHFLV PFDGPGLELHRPNLLLGLIIRQKLKRQHSACASTSHIAETPESA PPIALPPDKKSKIEVSTEEAPEEENDFFNSFTTVLHKQRNKPQQ NLQEDLPTAVEPLMEVTKQEPPKPLRFLPGVLIGWENQPTTLEL ANKPLPVDDILQSLLGTTGQVYDQ\AQSVMEQNTVKEIPFLNEQ TNSKIEKTDNVEVTDGENKEIKVKVDNISESTDKSAEIETSVVG SSSISAGSLTSLSLRGKPPDVSTEAFLTNLSIQSKQEETVESKE KTLKRQLCEDQENNLQDNQTSNSSPCRSNVGKGNIDGNVSCSEN LVANTARSPQFINLKRDPRQAAGRSQPVTTSESKDGDSCRNGEK HMLPGLSHNKEHLTEQINVEEKLCSAEKNSCVQQSDNLKVAQNS PSVENIQTSQAEQAKPLQEDILMQNIETVHPFRRGSAVATSHFE VGNTCPSEFPSKSITFTSRSTSPRTSTNFSPMRPQQPNLQHLKS SPPGFPFPGPPNFPPQSMFGFPPHLPPPLLPPPGFG\FA\QNPM VPWPPVV\HLP\GQPQRMMGPLSQASRYIGPQNFYQVKDIRRPE RRHSDPWGRQDQQQLDRPFNRGKGDRQRFYSDSHHLKRERHEKE WEQESERHRRRDRSQDKDRDRKSREEGHKDKERARLSHGDRGTD GKASRDSRNVDKKPDKPKSEDYEKDKEREKSKHREGEKDRDRYH KDRDHTDRTKSKR
5952	3226	639	PPARRSARDLPRALSMEAARPSGSWNGALCRLL\LVTL\AFLIF ASDACKNVTLHVPSKLDAEKLVGRVNLKECFTAANLIHSSDPDF QILEDGSVYTTNTILLSSEKRSFTILLSNTENQEKKKIFVFLEH QTKVLKKRHTKEKVLRRAKRRWAPIPCSMLENSLGPFPLFLQQV QSDTAQNYTIYYSIRGPGVDQEPRNLFYVERDTGNLYCTRPVDR EQYESFEIIAFATTPDGYTPELPLPLIIKIEDENDNYPIFTEET YTFTIFENCRVGTTVGQVCATDKDEPDTMHTRLKYSIIGQVPPS PTLFSMHPTTGVITTTSSQLDRELIDKYQLKIKVQDMDGQYFGL QTTSTCIINIDDVNDHLPTFTRTSYVTSVEENTVDVEILRVTVE DKDLVNTANWRANYTILKGNENGNFKIVTDAKTNEGVLCVVKPL NYEEKQQMILQIGVVNEAPFSREASPRSAMSTATVTVNVEDQDE GPECNPPIQTVRMKENAEVGTTSNGYKAYDPETRSSSGIRYKKL TDPTGWVTIDENTGSIKVFRSLDREAETIKNGIYNITVLASDQG GRTCTGTLGIILQDVNDNSPPFIPKKTVIICKPTMSSAEIVAVDP DEPIHGPPFDFSLESSTSEVQRMWRLKAINDTAARLSYQNDPPF GSYVVPITVRDRLGMSSVTSLDVTLCDCITENDCTHRVDPRIGG GGVQLGKWAILAILLGIALFFCILFTLVCGASGTSKQPKVIPDD LAQQNLIVSNTEAPGDDKVYSANGFTTQTVGASAQGVCGTVGSG IKNGGQETIEMVKGGHQTSESCRGAGHHHTLDSCRGGHTEVDNC RYTYSEWHSFTQPRLGEESIRGHTLIKN
5953	330	811	PLLCNPDPGWYWWVKQESEISKESQEMDARPKLDLGFKEGQTIK LCIGNITNKKGGASKPRTARGGGLSLLPPPPGGKVTIPPPSS/V KLPSTNHVTPPSIPKSNHGGSDADILLDLDSPAPVTTPAPTPVS VSNDLWGDFSTASSSVPNQAPQPSNWVQF
5954	32	2130	PPPPPPKLANMADLEAVLADVSYLMAMEKSKATPAARASKRIVL PEPSIRSVMQKYLAERNEITFDKIFNQKIGFLLFKDFCLNEINE AVPQVKFYEEIKEYEKLDNEEDRLCRSRQIYDAYIMKELLSCSH

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			PFSKQAVEHVQSHLSKKQVTSTLFQPYIEEICESLRGDIFQKFM ESDKFTRFCQWKNVELNIHLTMNEFSVHRIIGRGGFGEVYGCRK ADTGKMYAMKCLNKKRIKMKQGETLALNERIMLSLVSTGDCPFI VCMTYAFHTPDKLCFILDLMNGGDLHYHLSQHGVFSEKEMRFYA TEIILGLEHMHNRFVVYRDLKPANILLDEHGHARIS\DLGLACD FSKKKPHASVGTHGYMAPEVLQKGTAYDSSADWFSLGCMLFKLL RGHSPFRQHKTKDKHEIDRMTLTVNVELFDTFSPELKSLLEGLL QRDVSKRLGCHGGGSQEVKEHSFFKGVDWQHVYLQKYPPPLIPP RGEVNAADAFDIGSFDEEDTKGIKLLDCDQELYKNFPLVISERW QQEVTETVYEAVNADTDKIEARKRAKNKQLGHEEDYALGKDCIM HGYMLKLGNPFLTQWQRRYFYLFPNRLEWRGEGESRQNLLTMEQ ILSVEETQIKDKKCILFRIKGGKQFVLQCESDPEFVCWKKELNE TFKEAQRLLRRAPKFLNKPRSGTVELPKPSLCHRNSNGL
5955	1726	444	KREREFRLAVCPLRYPSAYESSPGTELRECGLCRSGQEFADCRR PANRQDVLSGWINLPVLQLTKDPLKTPGRLDHGTRTAFIHHREQ VWKRCINIWRDVGLFGVLNEIANSEEEVFEWVKTASGWALALCR WASSLHGSLFPHLSLRSEDLIAEFAQVTNWSSCCLRVFAWHPHT NKPAVALLDDSVRVYNASSTIVPSLKHRLQRNVASLAWKPLSAS VLAVACQSCILIWTLDPTSLSTRPSSGCAQVLSHPGHTPVTSLA WAPSGGRLLSASPVDAAIRVWDVSTETCVPLPWFRGGGVTNLLW SPDGSKILATTPSAVFRVWEAQMWTCERWPTLSGRCQTGCWSPD GSRLLFTVLGEPLIYSLSFPERCGEGKG\ALEVQSQQRLWQICL RQQYRHQMVRRGLGERLTPWSGTPVGNVWLCL
5956	1705	139	GVGVRGARAMATVQEKAAALNLSALHSPAHRPPGFSVAQKPFGA TYVWSSIINTLQTQVEVKKRRHRLKRHNDCFVGSEAVDVIFSHL IQNKYFGDVDIPRAKVVRVCQALMDYKVFEAVPTKVFGKDKKPT FEDSSCSLYRFTTIPNQDSQLGKENKLYSPARYADALFKSSDIR SASLEDLWENLSLKPANSPHVNISATLSPQVINEVWQEETIGRL LQLVDLPLLDSLLKQQEAVPKIPQPKRQSTMVNSSNYLDRGILK AYSDSQEDEWLSAAIDCSEYLPDQMVVEISRSFPEQPDRTDLVK ELLFDAIGRYYSSREPLLNHLSDVHNGIAELLVNGKTEIALEAT QLLLKLLDFQNREEFRRLLYFMAVAANPSEFKLQKESDNRMVVK RIFSKAIVDNKNLSKGKTDLLVLFL\MDHQKDVFKIPGTL\HKI VS\VK\LMAIQNGRDPNRDAGYIYCQRIDQRDYSNNTEKTTKDE LLNLLKTLDEDSKLSAKEKKK\LLGQFYKCHPDIFIEHFGD
5957	1479	451	ELQVAVAMDTLDRVVKPKTKRAKRFLEKREPKLNENIKNAMLIK GGNANATVTKVLKDVYALKKPYGVLYKKKNITRPFEDQTSLEFF SKKSDCSLFMFGSHNKKRFNNLVIGRMYDYHVLDMIELGIENFV SLKDIKNSKCPEGTKPMLIFAGDDFDVTEDYRRLKSLLIDFFRG PTVSNIRLAGLEYVLHFTALNGKIYFRSYKLLLKKSGCRTPRIE LEEMGPSLDDLVLRRTHLASDDLYKLSMKMPKALKPKKKKNISHD TFGTTYGRIHMQKQDLSKLQTRKM\KGLKKRPAERITEDHEKKS KRIKKKLMELSQPLLFHCVLLKRIIKHQSIQSFL
5958	1	3138	AAALGMLLWFPACQAFNLDVEKLTVYSGPKGSYFGYAVDFHIPD ARTASVLVGAPKANTSQPDIVEGGAVYYCPWPAEGSAQCRQIPF DTTNNRKIRVNGTKEPIEFKSNQWFG\ATVKA\HKGKSCGPVAP LLFTWRNFLKPTPEKGPVGTCYVAIQNFSAYAEFSPCGNSNADP EGQGYCQAGFSLDFYKNGDLIVGGPGSFYWQGQVITASVADIIA NYSFKDILRKLAGEKQTEVAPASYDDSYLGYSVAAGEFTGDSQQ ELVAGIPRGAQNFGYVSIINSYDMTFIQNFTGEQMASYFGYTVV VSDVNSDGLDDVLVGAPLFMEREFESNPREVGQIYLYLQVSSLL FRDPQILTGTETFGRFGSAMAHLGDLNQDGYNDIAIGVPFAGKD QRGKVLIYNGNKDGLNTKPFPKFCQGVWASHAVPSGFGFTLRGD SDIDKNDYPDLIVGAFGTGKVAVYRARPVVTVDAQLLLHPMIIN LENKTCQVPDSMTSAACFSLRVCASVTGQSIANTIVLMAEVQLD SLKQKGAIKRTLFLDNHQAHRVFPLVIKRQKSHQCQDFIVYLRD ETEFRDKLSPINISLNYSLDESTFKEGLEVKPILNYYRENIVSE QAHILVDCGEDNLCVPDLKLSARPDKHQVIIGDENHLMLIINAR NEGEGAYEAELFVMIPEEADYVGIERNNKGFRPLSCEYKMENVT RMVVCDLGNPMVSGTNYSLGLRFAVPRLEKTNMSINFDLQIRSS NKDNPDSNFVSLQINITAVAQVEIRGVSHPPQIVLPIHNWEPEE

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			EPHKEEBVGPLVEHIYELHNIGPSTISDTILEVGWPFSARDEFL LYIFHIQTLGPLCCQPNPNINPQDIKPAASPEDTPELSAFLRNS TIPHLVRKRDVHVVEFHRQSPAKILNCTNIECLQISCAVGRLEG GESAVLKVRSRLWAHTFLQRKNDPYALASLVSFEVKKMPYTDQP AKLPEGSIAIKTSVIWATPNVSFSIPLWVIILAILLGLLVLAIL TLALWKCGFFDRARPPQEDMTDREQLTNDKTPEA
5959	1	1166	GTSGYAAQQLPSLLKEREFHLGTLNKVFASQWLNHRQVVCGTKC NTLFVVDVQTSQITKIPILKDREPGGVTQQGCGIHAIELNPSRT LLATGGDNPNSLAIYRLPTLDPVCVGDDGHKDWIFSIAWISDTM AVSGSRDGSMGLWEVTDDVLTKSDARHNVSRVPVYAHITHKALK DIPKEDTNPDNCKVRALAFNNKNKELGAVSLDGYFHLWKAENTL SKLLSTKLPYCRENVCLAYGSEWSVYAVGSQAHVSFLDPRQPSY NVKSVCSRERGSGIRSVSFYEHIITVGTGQGSLLFYDIRAQRFL EERLSACYGSKPRLAGENLKLTTG\KGWLNHDETWRNYFSDIDF FPNAVYTHCYDSSGTKLFVAGGPLPSGLHGNYAGLWS
5960	2853	870	FVWSDGGPRPRRGPAVGAGAAHLSDPWAMTPGTANRATNPLNKE LDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWEAIQALT VLETCMKSCGKRFHDBVGKFRFLNELIKVVSPKYLGSRTSEKVK NKILELLYSWTVGLPBEVKIAEAYQMLKKQG\IVKSDPKLPDDT TFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKE MVQEDQKRMEKISKRVNAIEEVNNNVKLLTEMVMSHSQGGAAAG SSEDL\MKEL\YQRCERMRPTLFPTGRVDTEDND\EALAEILQA NDNLTQVINLYKQLVRGEEVNGDATAGSIPGSTSALLDLSGLDL PPAGTTYPAMPTRPGEQASPEQPSASVSLLDDELMSLGLSDPTP PSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRFPAQTSLP ASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQQPTPRLTLRDLQ NKSSSCSSPSSSATSLLHTVSPEPPRPPCQPVPTELSLASITVP LESIKPSNILPVTVYDQHGFRILFHFARDPLPGRSDVLVVVVSM LSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPAFNPIVHPSA ITQVLLLANPQKEKVRLRYKLTFTMGDQTYNEMGDVDQFPPPET WGSL
5961	198	3147	SGEPRPEPGNMATCIGEKIEDFKVGNLLGKGSFAGVYRAESIHT GLEVAIKMIDKKAMYKAGMVQRVQNEVKIHCQLKHPSILELYNY FEDSNYVYLVLEMCHNGEMNRYLKNRVKPFSENEARHFMHQIIT GMLYLHSHGILHRDLTLSNLLLTRNMNIKIADFGLATQLKMPHE KHYTLCGTPNYISPEIATRSAHGLESDVWSLGCMFYTLLIGRPP FDTDTVKNTLNKVVLADYEMPTFLSIEAKDLIHQLLRRNPADRL SLSSVLDHPFMSRNSSTKSKDLGTVEDSIDSGHATISTAITASS STSISGSLFDKRRLLIGQPLPNKMTVFPKNKSSTDFSSSGDGNS FYTQWGNQETSNSGRGRVIQDAEERPHSRYLRRAYSSDRSGTSN SQSQAKTYTMERCHSAEMLSVSKRSGGGENEERYSPTDNNANIF NFFKEKTSSSSGSFERPDNNQALSNHLCPGKTPFPFADPTPQTE TVCQQWFGNLQINAHLRKTTEYDSISPNRDFQGHPDLQKDTSKNA WTDTKVKKNSDASDNAHSVKQQNTMKYMTALHSKPEIIQQECVF GSDPLSEQSKTRGMEPPWGYQNRTLRSITSPLVAHRLKPIRQKT KKAVVSILDSEEVCVELVKEYASQEYVKEVLQISSDGNTITIYY PNGG\RGFPLA\DRPPSPT\DNISR\YSF\DNLPEKYWRKYQYA SRFVQLVRSKSPKITYFTRYAKCILMENSPGADFEVWFYDGVKI HKTEDFIQVIEKTGKSYTLKSESEVNSLKEEIKMYMDHANEGHR ICLALESIISEEERKTRSAPFFPIIIGRKPGSTSSPKALSPPPS VDSNYPTRDRASFNRMVMHSAASPTQAPILNPSMVTNEGLGLTT TASGTDISSNSLKDCLPKSAQLLKSVFVKNVGWATQ\LTSGAVW VQFNDGSQLVVQAGVSSISYTSPNGQ\TTR\YGENEKLPDYIKQ KLQCLSSILLMFSNPTPNFH
5962	20	2447	RVCSSSASTASQAVMADAWEEIRRLAADFQRAQFAEATQRLSER NCIEIVNKLIAQKQLEVVHTLDGKEYITPAQISKEMRDELHVRG GRVNIVDLQQVINVDLIHIENRIGDIIKSEKHVQLVLGQLIDEN YLDRLAEEVNDKLQESGQVTISELCKTYDLPGNFLTQALTQRLG RIISGHIDLDNRGVIFTEAFVARHKARIRGLFSAITRPTAVNSL ISKYGFQEQLLYSVLEELVNSGRLRGTVVGGRQDKAVFVPDIYS RTQSTWVDSFFRQNGYLEFDALSRLGIPDAVSYIKKRYKTTQLL

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			FLKAACVGQGLVDQVEASVEEAISSGTWVDIAPLLPTSLSVEDA AILLQQVMRAFSKQASTVVFSDTVVVSEKF\INDCTELFRELMH QKAEKEMKNNPVHLITEEDLKQISTLESVSTSKKDKKDERRRKA TEGSGSMRGGGGGNAREYKIKKVKKKGRKDDDSDDESQSSHTGK KKPEISFMFQDEIEDFLRKHIQDAPEEFISELAEYLIKPLNKTY LEVVRSVFMSSTTSASGTGRKRTIKDLQEEVSNLYNNIRLFEKG MKFFADDTQAALTKHLLKSVCTDITNLIFNFLASDLMMAVDDPA AITSEIRKKILSKLSEETKVALTKLHNSLNEKSIEDFISCLDSA AEACDIMVKRGDKKRERQILFQHRQALAEQLKVTEDPALILHLT SVLLFQFSTHSMLHAPGRCVPQIIAFLNSKIPEDQHALLVKYQG LVVKQLVSQSKKTGQGDYPLNNELDKEQEDVASTTRKELQELSS SIKDLVLKSRKSSVTEE
5963	62	1130	PWNPQDFPGNRGLMG\QKGEIGPP\GQQGKKGAPGMP\GLMGSN GSPGQPGTPGSKGSKGEPGIQGMPGASGLKGEPGATGSPGEPGY MGLPGIQGKKGDKGNQGEKGIQGQKGENGRQGIPGQQGIQGHHG AKGERGEKGEPGVRGAIGSKGESGVDGLMGPAGPKGQPGDPGPQ GPPGLDGKPGREFSEQFIRQVCTDVIRAQLPVLLQSGRIRNCDH CLSQHGSPGIPGPPGPIGPEGPRGLPGLPGRDGVPGLVGVPGRP GVRGLKGLPGRNGEKGSQGFGYPGEQGPPGPPGPEGPPGISKEG PPGDPGLPGKDGDHGKPGIQGQPGPPGICDPSLCFSVIARRDPF RKGPNY
5964	3	2147	SCRTRGRLSPLQPREAGSSRGSRARSEPPRFGGMEEACQVQTTK RGDPHELRNIFLQYASTEVDGERYMTPEDFVQRYLGLYNDPNSN PKIVQLLAGVADQTKDGLISYQEFLAFESVLCAPDSMFIVAFQL FDKSGNGEVTFENVKEIFGQTIIHHHIPFNWDCEFIRLHFGHNR KKHLNYTEFTQFLQELQLEHARQAFALKDKSKSGMISGLDFSDI MVTIRSHMLTPFVEENLVSAAGGSISHQVSFSYFNAPNSLLNNM ELVRKIYSTLAGTRKDAEVTKEEFAQSAIRYGQATPLEIDILYQ LADLYNASGRLTLADIERIAPLAEGALPYNLAELQRQQSPGLGR PIWLQIAESAYRFTLGSVAGAVGATAVYPIDLVKTRMQNQRGSG SVVGELMYKNSFDCFKKVLRYEGFFGLYRGLIPQLIGVAPEKAI KLTVNDFVRDKFTRRDGSVPLPAEVLAGGCAGGSQVIFTNPLEI VKIRLQVAGEITTGPRVSALNVLRDLGIFGLYKGAKACFLRDIP FSAIYFPVYAHCKLLLADENGHVGGLNLLAAGAMAG\VPAASLV TPADVIKTRLQVAARAGQTTYSGVIDCFRKIL\REEGPSAFWKG TAARVFRSSPQFG\VTLVTYELLQRGFYIDFGGLKPAGSEPTPK SRIADLPPANPDHIGGYRLATATFAGIENKFGLYLPKFKSPSVA VVQPKAAVAATQ
5965	1	1498	MVTWLYRFLPTSNMAAKLRSLLPPDLRLQFWLHARLQKCFLSRG CGSYCAGAKASPLPGKMAMGLMCGRRELLRLLQSGRRVHSVAGP SQWLGKPLTTRLLFPAAPCCCRPHYLFLAASGPRSLSTSAISFA EVQVQAPPVVAATPSPTAVPEVASGETADVVQTAAEQSFAELGL GSYTPVGLIQNLLEFMHVDLGLPWWGAIAACTVFARCLIFPLIV TGQREAARIHNHLPEIQKFSSRIREAKLAGDHIEYYKASSEMAL YQKKHGIKLYKPLILPVTQAPIFISFFIALREMANLPVPSLQTG GLWWFQDLTVSDPIYILPLAVTATMWAVLELGAETGVQSSDLQW MRNVIRMMPLITLPITMHFPTAVFMYWLSSNLFSLVQVSCLRIP AVRTVLKIPQRVVHDLDKLPPREGFLESFKKGWKNAEMTRQLRE REQRMRNQLELAARGPLRQTPTHNPLLQPGKDNPPNIPSS\SSS SSKPKSKYPWHDTLG
5966	102	1925	RSKQVMARLTKRRQADTKAIQHLWAAIEIIRNQKQIANIDRITK YMSRVHGMHPKETTRQLSLAVKDGLIVETLTVGCKGSKAGIEQE GYWLPGDEIDWETENHDWYCFECHLPGEVLICDLCFRVYHSKCL SDEFRLRDSSSPWQCPVCRSIKKKNTNKQEMGTYLRFIVSRMKE RAIDLNKKGKDNKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEE FKADAQLLLHNTVIFYGADSEQADIARMLYKDTCHEL\DELQLC KNCFYLANARPDNWFCYPCIPNHELDWAKMKGFGFWPAKVMQKE DNQVDVRFFGHHHQRAWIPSENIQDITVNIHRLHVKRSMGWKKA CDELELEHQRFLREGRFWKSKNEDRGEEEAESSISSTSNEQLKVT QEPRAKKGRRNQSVEPKKEEPEPETEAVSSSQEIPTMPQPIEKV SVSTQTKKLSASSPRMLHRSTQTTNDGVCQSMCHDKYTKIFNDF

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			KDRMKSDHKRETERVVREALEKLRSEMEEEKRQAVNKAVANMQG EMDRKCKQVKEKCKEEFVEEIKKLATQHKQLISQTKKKQWCYNC EEEAMYHCCWNTSYCSIKCQQEHWHAEHKRTCRRKR
5967	102	1925	RSKQVMARLTKRRQADTKAIQHLWAAIEIIRNQKQIANIDRITK YMSRVHGMHPKETTRQLSLAVKDGLIVETLTVGCKGSKAGIEQE GYWLPGDEIDWETENHDWYCFECHLPGEVLICDLCFRVYHSKCL SDEFRLRDSSSPWQCPVCRSIKKKNTNKQEMGTYLRFIVSRMKE RAIDLNKKGKDNKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEE FKADAQLLLHNTVIFYGADSEQADIARMLYKDTCHEL\DELQLC KNCFYLANARPDNWFCYPCIPNHELDWAKMKGFGFWPAKVMQKE DNQVDVRFFGHHHQRAWIPSENIQDITVNIHRLHVKRSMGWKKA CDBLELHQRFLREGRFWKSKNEDRGEEEAESSISSTSNEQLKVT QEPRAKKGRRNQSVEPKKEEPEPETEAVSSSQEIPTMPQPIEKV SVSTQTKKLSASSPRMLHRSTQTTNDGVCQSMCHDKYTKIFNDF KDRMKSDHKRETERVVREALEKLRSEMEEEKRQAVNKAVANMQG EMDRKCKQVKEKCKEEFVEEIKKLATQHKQLISQTKKKQWCYNC EEEAMYHCCWNTSYCSIKCQQEHWHAEHKRTCRRKR
5968	81	1288	VRFPRRGGAPPTVLTPGRQQGVFLGPQRPGSEPDIPARGQPHPP RPVGVSTSAQAQVQPPAMHRRRLALGLGFCLLACTSLSVLWVYL ENWLPVSYVPYYLPCPEIFNMKLHYKREKPLQPVVWSQYPQPKL LEHRPTQLLTLTPWLAPIVSEGTFNPELLQHIYQPLNLTIGVTV FAVGN/HFLESAEEFFMRGYRVHYYIFTDNPAAVPGVPLGPHRL LSSIPIQGHSHWEETSMRRMETISQHIAKRAHREVDYLFCLDVD MVFRNPWGPETLGDLVAAIHPSYYAVPRQQFPYERRRVSTAFVA DSEGDFYYGGAVFGGQVARVYEFTRGCHMAILADKANGIMAAWR EESHLNRHFISNKPSKVLSPEYLWDDRKPQPPSLKLIRFSTLDK DISCLRS
5969	1126	503	DVGFNIKRKRCDLDVFLESPRKPSGRRDRAPEKQRRIAANKCLC TGVREGEPPS/TTSQKVKEAGRDFTYLIVVLFGISITGGLFYTI FKELFSSSSPSKIYGRALEKCRSHPEVIGVFGESVKGYGEVTRR GRRQHVRFTEYVKDGLKHTCVKFYIEGSEPGKQGTVYAQVKENP GSGEYDFRYIFVEIESYPRRTIIIEDNRSQDD
5970	316	4712	SQDNIGHRLLQKHGWKLGQGLGKSLQGRTDPIPIVVKYDVMGMG RMEMELDYAEDATERRRVLEVEKEDTEELRQKYKDYVDKEKAIA KALEDLRANFYCELCDKQYQKHQEFDNHINSYDHAHKQRLKDLK QREFARNVSSRSRKDEKKQEKALRRLHELAEQRKQAECAPGSGP MFKPTTVAVDEEGGEDDKDESATNSGTGATASCGLGSEFSTDKG GPFTAVQITNTTGLAQAPGLASQGISFGIKNNLGTPLQKLGVSF SFAKKAPVKLESIASVFKDHAEEGTSEDGTKPDEKSSDQGLQKV GDSDGSSNLDGKKEDEDPQDGGSLASTLSKLKRMKREEGAGATE PEYYHYIPPAHCKVKPNFPFLLFMRASEQMDGDNTTHPKNAPES KKGSSPKPKSCIKAAASQGAEKTVSEVSEQPKETSMTEPSEPGS KAEAKKALGGDVSDQSLESHSQKVSETQMCESNSSKETSLATPA GKESQEGPKHPTGPFFPVLSKDESTALQWPSELLIFTKAEPSIS YSCNPLYFDFKLSRNKDARTKGTEKPKDIGSSSKDHLQGLDPGE PNKSKEVGGEKIVRSSGGRMDAPASGSACSGLNKQEPGGSHGSE TEDTGRSLPSKKERSGKSHRHKKKKHKKSSKHKRKHKADTEEK SSKAESGEKSKKRKKRKRKKNKSSAPADSERGPKPEPPGSGSPA PPRRRRRAQDDSQRRSLPAEEGSSGKKDEGGGGSSSQDHGGRKH KGELPPSSCQRRAGTKRSSRSSHRSQPSSGDEDSDDASSHRLHQ KSPSQYSEEEEEEDSGSEHSRSRSRSGRRHSSHRSSRRSYSSSS DASSDQSCYSRQRSYSDDSYSDYSDRSRRHSKRSHDSDDSDYAS SKHRSKRHKYSSSDDDYSLSCSQSRSRSRSHTRERSRSRGRSRS SSCSRSRSKRRSRSTTAHSWQRSRSYSRDRSRSTRSPSQRSGSR KRSWGHESPEERHSGRRDFIRSKIYRSQSPHYFRSGRGEGPGKK DDGRGDDSKATGPPSQNSNIGTGRGSEGDCSPEDKNSVTAKLLL EKIQSRKVERKPSVSEEVQATPNKAGPKLKDPPQGYFGPKLPPS LGNKPVLPLIGKLPATRKPNKKCEESGLERGEEQEQSETEEGPP GSSDALFGHQFP\SEETTGPLLDPPPEESKSGEVTADHPVAPLG PPAHFDCYLGDPTISHNYLPDPSDGNTLESLDSSSQPGPVESSL LPIAPDLEHFPSYAPPSGDPSIESTDGAEDA\SLAPLESQPITF

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			TPEEMEKYSKLQQAAQQHIQQQLLAKQVKAFPASAALAPATPAL QPIHIQQPATASATSITTVQHAILQHHAAAAAAAIGIHPHPHPQ PLAQVHHIPQPHLTPISLSHLTHSIIPGHPATFLASHPIHIIPA SAIHPGPFTFHPVPHAALYPTLLAPRPAAAAATALHLHPLLHPI FSGQDLQHPPSHGT
5971	53	2149	SFLYFVGVDMDNPIGNWDGRFDGVQLCSFACVESTILLHINDII PESVTQERRPPKLAFMSRGVGDKGSSSHNKPKATGSTSDPGNRN RSELFYTLNGSSVDSQPQSKSKNTWYIDEVAEDPAKSLTEISTD FDRSSPPLQPPPVNSLTTENRFHSLPFSLTKMPNTNGSIGHSPL SLSAQSVMEELNTAPVQESPPLAMPPGNSHGLEVGSLAEVKENP PFYGVIRWIGQPPGLNEVLAGLELEDECAG\CTDGTF/REGTRY FTCALKKALFVKLKSCRPDSRFASLQPVSNQIERCNSLAIWEAY LSEVVEENTPTQKWEKEGLEIMIC\KKKGIQGHYNSCYLDSTLF CLFAFSSVLDTVLLRPKEKNDVEYYSETQELLRTEIVNPLRIYG YVCATKIMKLRKILEKVEAASGFTSEEKDPEEFLNILFHHILRV EPLLKIRSAGQKVQDCYFYQIFMEKNEKVGVPTIQQLLEWSFIN SNLKFAEAPSCLIIQMPRFGKDFKLFKKIFPSLELNITDLLEDT PRQCRICGGLAMYECRECYDDPDISAGKIKQFCKTCNTQVHLHP KRLNHKYNPVSLPKDLPDWDWRHGCIPCQNMELFAVLCIETSHY VAFVKYGKDDSAWLFFDSMADRDGGQNGFNIPQVTPCPEVGEYL KMSLEDLHSLDSRRIQGCARRLLCDAIYVPCTQSPTMSLYK
5972	440	1761	ILLAGSPSPRDQCSQRQSSGGDKELVTRGCTFSTAVVSPSAMTQ EPFREELAYDRMPTLERGRQDPASYAPDAKPSDLQLSKRLPPCF SHKTWVFSVLMGSCLLVTSGFSLYLGNVFPAEMDYLRCAAGSCI PSAIVSFTVSRRNANVIPNFQILFVSTFAVTTTCLIWFGCKLVL NPSAININFNLILLLLLELLMAATVIIAARSSEEDCKKKKGSMS DSANILDEVPFPARVLKSYSVVEVIAGISAVLGGIIALNVDDSV SGPHLSVTFFWILVACFPSAIASHVAAECPNKCLVEVLIAISSL TSPLLFTASGYLSFSIMRIVEMFKDYPPAIKPSYDVLLLLLLLV LLLQA/GPQHGHRHPVRALQGQCKAAGCILGHPERPAGAPGWGG GQEPPEGVRQGESLESRRGANGPVTPRRGNRVAAPSLAPGMETH NP
5973	65	2007	NGDGKDLFGHIWAWRSNGIISNFRRSPHAGMAEDEPDAKSPKTG GRAPPGGAEAGEPTTLLQRLRGTISKAVQNKVEGILQDVQKFSD NDKLYLYLQLPSGPTTGDKSSEPSTLSNEEYMYAYRWIRNHLEE HTDTCLPKQSVYDAYRKYCESLACCRPLSTANFGKIIREIFPDI KARRLGGRGQSKYCYSGIRRKTLVSMPPLPGLDLKGSESPEMGP EVTPAPRDELVEAACALTCDWAERILKRSFSSIVEVARFLLQQH LISARSAHAHVLKAMGLAEEDEHAPRERSSKPKNGLENPEGGAH KKPERLAQPPKDLEARTGAGPLARGERKKSVVESSAPGANNLQV NALVARLPLLLPRAPRSLIPPIPVSPPILAPRLSSGALKVATLP LSSRAGAPPAAVPIINMILPTVPALPGPGPGPGRAPPGGLTQPR GTENREVGIGGDQGPHDKGVKRTAEVPVSEASGQAPPAKAAKQD IEDTASDAKRKRGRPLKKSGGSGERNSTPLKSAAAMESAQSSRL PWETWGSGGEGNSAGGAERPGPMGEAEKGAVLAQG\QGDGTVSK GGRGPGSQHTKEAEDKIPLVPSKVSVIKGSRSQKEAFPLAKGEV DTAPQGNKDLKEHVLQSSLSQEHKDPKATPP
5974	4293	2200	LGLQMHTTSGRIHQAMVTSLNEDNESVTVEWIENGDTKGK\EID LESIFSLNP\DL\VPDGEIEPSP\ETPPPPASSAKVNKIVKNRR TV\ASIKNDPPS\RDNRVVGSARARPSQFPEQFSSAQQNGSV\S DISPVQAAKKEFGPPSRRKSNCVKEVEKLQEKREKRRLQQQELR EKRAQDVDATNPNYEIMCMIRDFRGSLDYRPLTTADPIDEHRIC VCVRKRPLNKKETQMKDLDVITIPSKDVVMVHEPKQKVDLTRYL ENQTFRFDYAFDDSAPNEMVYRFTARPLVETIFERGMATCFAYG QTGSGKTHTMGGDFSGKNQDCSKGIYALAARDVFLMLKKPNYKK LELQVYATFFEIYSGKVFDLLNRKTKLRVLEDGKQQVQVVGLQE REVKCVEDVLKLIDIGNSCRTSGQTSANAHSSRSHAVFQIILRR KGKLHGKFSLIDLAGNERGADTSSADRQTRLEGAEINKSLLALK ECIRALGRNKPHTPFRASKLTQVLRDSFIGENSRTCMIATISPG MASCENTLNTLRYANRVKELTVDPTAAGDVRPIMHHPPNQI\DD LETQWGVGSSPQRDDLKLLCEQNEEEVSPQLFTFHEAVSQMVEM

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			EEQVVEDHRAVFQESIRWLEDEKALLEMTEEVDYDVDSYATQLE AILEQKIDILTELRDKVKSFRAALQEEEQASKQINPKRPRAL
5975	4293	2200	LGLQMHTTSGRIHQAMVTSLNEDNESVTVEWIENGDTKGK\EID LESIFSLNP\DL\VPDGEIEPSP\ETPPPPASSAKVNKIVKNRR TV\ASIKNDPPS\RDNRVVGSARARPSQFPEQFSSAQQNGSV\S DISPVQAAKKEFGPPSRRKSNCVKEVEKLQEKREKRRLQQQELR EKRAQDVDATNPNYEIMCMIRDFRGSLDYRPLTTADPIDEHRIC VCVRKRPLNKKETQMKDLDVITIPSKDVVMVHEPKQKVDLTRYL ENQTFRFDYAFDDSAPNEMVYRFTARPLVETIFERGMATCFAYG QTGSGKTHTMGGDFSGKNQDCSKGIYALAARDVFLMLKKPNYKK LELQVYATFFEIYSGKVFDLLNRKTKLRVLEDGKQQVQVVGLQE REVKCVEDVLKLIDIGNSCRTSGQTSANAHSSRSHAVFQIILRR KGKLHGKFSLIDLAGNERGADTSSADRQTRLEGAEINKSLLALK ECIRALGRNKPHTPFRASKLTQVLRDSFIGENSRTCMIATISPG MASCENTLNTLRYANRVKELTVDPTAAGDVRPIMHHPPNQI\DD LETQWGVGSSPQRDDLKLLCEQNEEEVSPQLFTFHEAVSQMVEM EEQVVEDHRAVFQESIRWLEDEKALLEMTEEVDYDVDSYATQLE AILEQKIDILTELRDKVKSFRAALQEEEQASKQINPKRPRAL
5976	20	2949	VHHLHLTRVSVVVNLDIILRIAQQMGIKTLNLVLG\LKRA\LEF PEVSWMEVKDPNMKGAMLTNTGKYAIPTIDA\EAYAIGKKEKPP FLPEEPSSSSEEDDPIPDELLCLICKDIMTDAVVIPCCGNSYCD ECIRTALLESDEHTCPTCHQNDVSPDALIANKFLRQAVNNFKNE TGYTKRLRKQLPSPPPPIPPPRPLIQRNLQPLMRSPISRQQDPL MIPVTSSSTHPAPSISSLTSNQSSLAPPVSGNPSSAPAPVPDIT ATVSISVHSEKSDGPFRDSDNKILPAAALASEHSKGTSSIAITA LMEEKGYQVPVLGTPSLLGQSLLHGQLIPTTGPVRINTARPGGG RPGWEHSNKLGYLVSPPQQIRRGERSCYRSINRGRHHSERSQRT QGPSLPATPVFVPVPPPPLYPPPPHTLPLPPGVPPPQFSPQFPP GQP\PPAGYSVPPPGFPPAPANLSTPWVSSGVQTAHSNTIPTTQ APPLSREEFYREQRRLKEEEKKKSKLDEFTNDFAKELMEYKKIQ KERRRSFSRSKSPYSGSSYSRSSYTYSKSRSGSTRSRSYSRSFS RSHSRSYSRSPPYPRRGRGKSRNYRSRSRSHGYHRSRSRSPPYR RYHSRSRSPQAFRGQSPNKRNVPQGETEREYFNRYREVPPPYDM KAYYGRSVDFRDPFEKERYREWERKYREWYEKYYKGYAAGAQPR PSANRENFSPERFLPLNIRNSPFTRGRREDYVGGQSHRSRNIGS NYPEKLSARDGHNQKDNTKSKEKESENAPGDGKGNKHKKHRKRR KGEESEGFLNPELLETSRKSREPTGVEENKTDSLFVLPSRDDAT PVRDEPMDAESITFKSVSEKDKRERDKPKAKGDKTKRKNDGSAV SKKENIVKPAKGPQEKVDG\DVRDLLDLNL\QLKKPKEETPKDL TILNHHLPLRRMKKSL\EPP\EKLTLNQQK\TPRNKTSQRGKSE EGLFQRCQIRKANN
5977	1363	1336	FLEDRGQVLSHFQCLSLHSINHILHPGAGVAAGPATGW/REYLT PVLKESKFKETGVITPEEFVAAGDHLVHHCPTWQWATGRELKVK AYLPTGKQFLVTKNVPCYKRCKQMEYSDELEAIIEEDDGDGGWV DTYHNTGITGITEAVKEITLENKDNIRLQDCSALCEEEEDEDEG EAADMEEYEESGLLETDEATLDTRKIVEACKAKTDAGGEDAILQ TRTYDLYITYDKYYQTPRLWLFGYDEQRQPLTVEHMYEDISQDH VKKTVTIENHPHLPPPPMCSVHPCRHAEVMKKIIETVAEGGGEL GVHMYLLIFLKFVQAVIPTIEYDYTRHFTM
5978	160	3213	RDGARRWGGCQSPLTWAPGFYRRFDLATSGRRLRGQTAEPAGRQ RPRREPEAMDEQSVESIAEVFRCFICMEKLRDARLCPHCSKLCC FSCIRRWLTEQRAQCPHCRAPLQLRELVNCRWAEEVTQQLDTLQ LCSLTKHEENEKDKCENHHEKLSVFCWTCKKCICHQCALWGGMH GGHTFKPLAEIYEQHVTKVNEEVAKLRRRLMELISLVQEVERNV EAVRNAKDERVREIRNAVEMMIARLDTQLKNKLITLMGQKTSLT QETELLESLLQEVEHQLRSCSKSELISKSSEILMMFQQVHRKPM ASFVTTPVPPDFTSELVPSYDSATFVLENFSTLRQRADPVYSPP LQVSGLCWRLKVYPDGNGVVRGYYLSVFLELSAGLPETSKYEYR VEMVHQSCNDPTKNIIREFASDFEVGECWGYNRFFRLDLLANEG YLNPQNDTVILRFQVRSPTFFQKSRDCHWYITQLEAAQTSYIQQ INNLKERLTIELSRTQKSRDLSPPDNHLSPQNDDALETRAKKSA

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			CSDMLLER\GPYSAS\VREAKEDEEDEEKIQNEDYHHELSDGDL DLDLVYEDEVNQLDGSSSSASSTATSNTEENDIDEETMSGENDV EYNNMELEEGELMEDAAAAGPAGSSHGYVGSSSRISRRTHLCSA ATSSLLDIDPLILIHLLDLKDRSSIENLWGLQPRPPASLLQPTA SYSRKDKDQRKQQAMWRVPSDLKMLKRLKTQMAEVRCMKTDVKN TLSEIKSSSAASGDMQTSLFSADQAALAACGTENSGRLQDLGME LLAKSSVANCYIRNSTNKKSNSPKPARSSVAGSLSLRRAVDPGE NSRSKGDCQTLSEGSPGSSQSGSRHSSPRALIHGSIGDILPKTE DRQCKALDSDAVVVAVFSGLPAVEKRRKMVTLGANAKGGHLEGL QMTDLENNSETGELQPVLPEGASAAPEEGMSSDSDIECDTENEE QEEHTSVGGFHDSFMVMTQPPDEDTHSSFPDGEQIGPEDLSFNT DENSGR
5979	212	3665	LPDMTMYLWLKLLAFGFAFLDTEVFVTGQSPTPSPTDAYLNASE TTTLSPSGSAVISTTTIATTPSKPTCDEKYANITVDYLYNKETK LFTAKLNVNENVECGNNTCTNNEVHNLTECKNASVSISHNSCTA PDKTLILDVPPGVEKVPVHCCS\QVEQPDSTIWLKWKNIETSTC DTQNITYRFQCGNMIFDNKEIKLENLEPEHEYKCDSEILYNSHK FTNASKIIKTDFGSPGEPQIIFCRSEAAHQGVITWNPPQRSFHN FTLCYIKETEKDCLNLDKNLIKYDLQNLKPYTKYVLSLHAYIIA KVQRNGSAAMCHFTTKSAPPSQVWNMTVSMTSDNSMHVKCRPPR DRNGPHERYHLEVEAGNTLVRNESHKNCDFRVKDLQYSTDYTFK AYFHNGDYPGEPFILHHSTSYNSKALIAFLAPLIIVTSIALLVV LYKIYDLHKKRSCNLDEQQELVERDDEKQLMNVEPIHADILLET YKRKIADEGRLFLAEFQSIPRVFSKFPIKEARKPFNQNKNRYVD ILPYDYNRVELSEINGDAGSNYINASYIDGFKEPRKYIAAQGPR DETVDDFWRMIWEQKATVIVMVTRCEEGNRNKCAEYWPSMEEGT RAFGECCCKDLTKHKRCP\DYIIQKLNIVNKKEKATGREVTHIQ FTSWPDHGVPEDPHLLLKLRRRVNAFSNFFSGPIVVHCSAGVGR TGTYIGIDAMLEGLEAENKVDVYGYVVKLRRQRCLMVQVEAQYI LIHQALVEYNQFGETEVNLSELHPYLHNMKKRDPPSEPSPLEAE FQRLPSYRSWRTQHIGNQE\ENKSKNRNSNVIPYDYNRVPLKHE LEMSKESEHDSDESSDDDSDSEEPSKYINASFIMSYWKP\EVMI AAQGPLKETIGDFWQMIFQRKVKVIVMLTELKHGDQEICAQYWG EGKQTYGDIEVDLKDTDKSSTYTLRVFELRHSKRKDSRTVYQYQ YTNWSVEQLPAEPKELISMIQVVKQKLPQKNSSEGNKHHKSTPL LIHCRDGSQQTGIFCALLNLLESAETEEVVDIFQVVKALRKARP GMVSTFEQYQFLYDVIASTYPAQNGQVKKNNHQEDKIEFDNEVD KVKQDANCVNPLGAPEKLPEAKEQAEGSEPTSGTEGPEHSVNGP ASPALNQGS
5980	3	2363	DAWGCKLRRLRFTYGTQTRVSLALPGQYELVHTLVAHQGNWETI PEEDLEVQENNEDAAHDLTELEVTMHHALLQEVDVVVAPCQGLR PTVDVLGDLVNDFLPVITYALHKDELSERDEQELQEIRKYFSFP VFFFKVPKLGSEIIDSSTRRMESERSPLYRQLIDLGYLSSSHWN CGAPGQDTKAQSMLVEQSEKLRHLSTFSHQVLQTRLVDAAKALN LVHCHCLDIFINQAFDMQRDLQITPKRLEYTRKKENELYESLMN IANRKQEEMKDMIVETLNTMKEELLDDATNMEFKDVIVPENGEP VGTREIKCCIRQIQELIISRLNQAVANKLISSVDYLRESFVGTL ERCLQSLEKSQDVSVHITSNYLKQILNAAYHVEVIFHSGSSVTR MLWEQIKQIIQRITWVSPPAITLEWKRKVAQEAIESLSASKLAK SICSQFRTRLNSSHEAFAASLRQLEAGHSGRLEKTEDLWLRVRK DHAPRLARLSLESRSLQDVLLHRKPKLGQELGRGQYGVVYLCDN WGGHFPCALKSVVPPDEKHWNDLALEFHYMRSLPKHERLVDLHG SVIDYNYGGGSSIAVLLIMERLHRDLYTGLKAGLTLETRLQIAL DVVEGIRFLHSQGLVHRDIKLKNVLLDKQNRAKITDLGFCKPEA MMSGSIVGTPIHMAPELFTGKYDNSVDVYAFGILFWYICSGSVK LPEAFERCASKDHLWNNVRRGARPERLPVFDEECWQLMEACWDG DPLKRPLLGIVQPMLQGIMNRLCKS\NSEQPNRGLDDST
5981	1	2519	GRRHSAAMERPWGAADGLSRWPHGLGLLLLLLQLLPPSTLSQDRL DAPPPPAAPLPRWSGPIGVSWGLRAAAA\GGAFPRGGRWRRSAP G\EDEECGRVRDFVAKLANNTHQHVFDDLRGSVSLSWVGDSTGV ILVLTTFHVPLVIMTFGQSKLYRSEDYGKNFKDITDLINNTFIR

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			TEFGMAIGPENSGKVVLTAEVSGGSRGGRIFRSSDFAKNFVQTD LPFHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGGKWEEIHKA VCLAKWGSDNTIFFTTYANGSCKADLGALELWRTSDLGKSFKTI GVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGDTWSMAQLP SVGQEQFYSILAANDDMVFMHVDEPGDTGFGTIFTSDDRGIVYS KSLDRHLYTTTGGETDFTNVTSLRGVYITSVLSEDNSIQTMITF DQGGRWTHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVP MAPLSEPNAVGIVIAHGSVGDAISVMVPDVYISDDGGYSWTKML EGPHYYTILDSGGIIVAIEHSSRPINVIKFSTDEGQCWQTYTFT RDPIYFTGLASEPGARSMNISIWGFTESFLTSQWVSYTIDFKDI LERNCEEKDYTIWLAHSTDPEDYEDGCILGYKEQFLRLRKSSVC QNGRDYVVTKQPSICLCSLEDFLCDFGYYRPENDSKCVEQPELK GHDLEFCLYGREEHLTTNGYRKIPGDKCQGGVNPVREVKDLKKK CTSNFLSPEKQNSKSNSVPIILAIVGLMLVTVVAGVLIVXKYVC GGRFLVHLYSVLQQH\AEA\NGVDGVDALDTASHTNKSGYHDDS DEDLLE
5982	56	2316	ATRPPRGSSWCRQFSRTASAAPGRSNMLRIPVRKALVGLSKSPK GCVRTTATAASNLIEVFVDGQSVMVEPGTTVLQACEKVGMQIPR FCYHERLSVAGNCRMCLVEIEKAPKVVAACAMPVMKGWNILTNS EKSKKAREGVMEFLLANHPLDCPICDQGGECDLQDQSMMFGNDR SRFLEGKRAVEDKNIGPLVKTIMTRCIQCTRCIRFASEIAGVDD LGTTGRGNDMQVGTYIEKMFMSELSGNIIDICPVGALTSKPYAF TARPWETRKTESIDVMDAVGSNIVVSTRTGEVMRILPRMHEDIN EEWISDKTRFAYDGLKRQRLTEPMVRNEKGLLTYTSWEDALSRV AGMLQSFQGKDVAAIAGGLVDAEALVALKDLLNRVDSDTLCTEE VFPTAGAGTDLRSNYLLNTTIAGVEEADVVLLVGTNPRFEAPLF NARIRKSWLHNDLKVALIGSPVDLTYTYDHLGDSPKILQDIASG SHPFSQVLKEAKKPMVVLGSSALQRNDGAAILAAVSSIAQKIRM TSGVTGDWKVMNILHRIASQVAALDLGYKPGVEAIRKNPPKVLF LLGADGGCITRQDLPKDCFIIYQGHHGDVGAPIADVILPGAAYT EKSATYVNTEGRAQQTKVAVTPPGLAREDWKIIRALSEIAGMTL PYDTL\DQVRNRLEEVSPNLVRYDDIEG\ANYFQQANELSKLVN QQLLADPLVPPQLTMKDFYMTDSISRASQTMAKCVKAVTEGAQA VEEPSIC
5983	248	1763	EARGDGGRRRHRASGRRAGRGEP\AGLKSQGQRAVPKRAVARGG RQ\YSAAIALLEPAGSEIADDLSILYSNRAACYLKEGNCSGCIQ DCNRALELHPFSMKPLLRRAMAYETLEQYGKAYVDYKTVLQIDC GLQLANDSVNRLSRILMELDGPNWREKLSLIPAVPASVPLQAWH PAKEMISKQAGDSSSHRQQGITDEKTFKALKEEGNQCVNDKNYK DALSKYSECLKINNKECAIYTNRALCYLKLCQFEEAKQDCDQAL QLADGNVKAFYRRALAHKGLKNYQKSLIDLNKVILLDPSIIEAK MELEEVTRLLNLKDKTAPFNKEKERRKIEIQEVNEGKEEPGRPA GEVSTGCLASEKGGKSSRSPEDPEKLPIAKPNNAYEFGQIINAL STRKDKEACAHLLAITAPKDLPMFLSNKLEGDTFLLLIQSLKNN LIEKDPSLVYQHLLYLSKAERFKMMLTLISKGQKELIEQLFEDL SDTPNNHFTLEDIQALKRQYEL
5984	755	1193	SSVCMACTYVSNLGKKQRSVSFLASGLMRVSTGPELRLHHSFVL TGDVGRRICRLLVGLFTKGDTSSKRVHPFSPGPCFLLCDLARVG SSPKINVSPPFYQN\QTSTQRSCTVFVWQRCSLVGPFQVTVFTMY FHHSLRSISRFSSG
5985	22	1408	RRVARPGTAEPAKARRTVRRGRARRDLAGAERKAGVSERGDSGR RRPNPSIPSAAAGMSHIQIPPGLTELLQGYTVEVLRQQPPDLVE FAVEYFTRLREARAPASVLPAATPRQSLGHPPPEPGPDRVADAK GDSESEEDEDLEVPVPSRFNRRVSVCAETYNPDEEEEDTDPRVI HPKTDEQRCRLQEACKDILLFKNLDQEQLSQVLDAMFERIVKAD EHVIDQGDDGDNFYVIERGTYDILVTKDNQTRSVGQYDNRGSFG ELALMYNTPRAATIVATSEGSLWGLDRVTFRRIIVKNNAKKRKM FESFIESVPLLKSLEVSERMKIVDVIGEKIYKR/DGERIITQGE K\ADSFYIIESGEVSILIRSRTKSNKDGGNQEVEIARCHKGQYF GELALVTNKPRAASAYAVGDVKCLVMDVQAFERLLGPCMDIMKR NISHYEEQLVKMFGSSVDLGNLGQ

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5986	1806	484	DAWKSTSLTFHWKLWGRHRGRRRGLAHPKNHLSPQQGGATPQVP SPCCRFDSPRGPPPPRLGLLGALMAEDGVRGSPPVPSGPPMEED GLRWTPKSPLDPDSGLLSCTLPNGFGGQSGPEGERSLAPPDASI LISNVCSIGDHVAQELFQGSDLGMAEEAERPGEK\AGQHSPLRE EHVTCVQSILDEFLQT\YGSLIPLSTDEVVEKLEDIFQQEFSTP SRKGLVLQLIQSYQRMPGNAMVRGFRVAYKRHVLTMDDLGTLYG QNWLNDQVMNMYGDLVMDTVPEK\VHFFNSFFY\DKLRTKGYDG VKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQ RTLNRRCPKHIAKYLQAEAVKKDRLDFHQGWKGYFKMNVARQNN DSDCGAFVLQYCKHLALSQPFSFTQQDMPKLRRQIYKELCHCKL TV
5987	1806	484	DAWKSTSLTFHWKLWGRHRGRRRGLAHPKNHLSPQQGGATPQVP SPCCRFDSPRGPPPPRLGLLGALMAEDGVRGSPPVPSGPPMEED GLRWTPKSPLDPDSGLLSCTLPNGFGGQSGPEGERSLAPPDASI LISNVCSIGDHVAQELFQGSDLGMAEEAERPGEK\AGQHSPLRE EHVTCVQSILDEFLQT\YGSLIPLSTDEVVEKLEDIFQQEFSTP SRKGLVLQLIQSYQRMPGNAMVRGFRVAYKRHVLTMDDLGTLYG QNWLNDQVMNMYGDLVMDTVPEK\VHFFNSFFY\DKLRTKGYDG VKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQ RTLNRRCPKHIAKYLQAEAVKKDRLDFHQGWKGYFKMNVARQNN DSDCGAFVLQYCKHLALSQPFSFTQQDMPKLRRQIYKELCHCKL TV
5988	1292	410	FKKYFLSFLGLLESSHSRDRIHNLVLMFLLATHNLVWWFTCRFQ RLDCIYLNAGIMPNPQLNIKALLFGLFS\AEGLLTQGDKITADG LQEVFETDVFGHFILIRELEPLLCHSDNPSQLIWTSSRNARKSN FSLEDFQHSKGKEPYSSSKYATDLLSVALNRNFNQQGLYSNVAC PGTALTNLTYGILPPFIWTLLMPAILLLRFFANAFTLTPYNGTE ALVWLFHQKPESLNPLIKYLSATTGFGRNYIMTQKMDLDEDTAE KFYQKLLELEKHIRVTIQKTDNQARLSGSCL
5989	194	2610	AMDFPQHSQHVLEQLNQQRQLGLLCDCTFVVDGVHFKAHKAVLA ACSEYFKMLFVDQKDVVHLDISNAAGLGQVLEFMYTAKLSLSPE NVDDVL\AVATFLQMQDIITACHALKSLAEPATSPGGNAEALAT EGGDKRAKEEKVATSTLSRLEQAGRSTPIGPSRDLKEERGGQAQ SAASGAEQTEKADAPREPPPVELKPDPTSGMAAAEAEAALSESS EQEMEVEPARKGEEEQKEQEEQEEEGAGPAEVKEEGSQLENGEA PEENENEESAGTDSGQELGSEARGLRSGTYGDRTESKAYGSVIH KCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACK AHEKTHSPLKPYGCEECGKSYRLISLLNLRKKRHSGEARYRCED CGKLFTTSGNLKRHQLVHSGEKPYQCDYCGRSFSDPTSKMRHLE THDTDKEHKCPHCDKKFNQVGNLKAHLKIHIADGPLKCRECGKQ FTTSGNLKRHLRIHSGEKPYVCIHCQRQFADPGALQRHVRIHTG EKPCQCVMCGKAFTQASSLIAHVRQHTGEKPYVCERCGKRFVQS SQLANHIRHHDNIRPHKCSVCSKAFVNVGDLSKHIIIHTGEKPY LCDKCGRGFNRVDNLRSHVKTVHQGKAGIKILEPEEGSEVSVVT VDDMVTLATEALAATAVTQLTVVPVGAAVTADETEVLKAEISKA VKQVQEEDPNTHILYACDSCGDKFLDANSLAQHVRIHTAQALVM FQTDADFYQQYGPGGTWPAGQVLQAGELVFRPRDGAEGQPALAE TSPTAPECPPPAE
5990	2	4700	FGPGPDSGGGARGSGWGSRSQAPYGTLGAVSGGEQVLLHEEAGD SGFVSLSRLGPSLRDKDLEMEELMLQDETLLGTMQSYMDASLIS LIEDFGSLGEVEMSLPDPSWDFSPPSFLETSSPKLPSWRPPRSR PRWGQSPPPQQRSDGEEEEEVASFSGQILAGELDNCVSSIPDFP MHLACPEEEDKATAAEMAVPAAGDESISSLSELVRAMHPYCLPN LTHLASLEDELQEQPDDLTLPEGCVVLEIVGQAATAGDDLEIPV VVRQVSPGPRPVLLDDSLETSSALQLLMPTLESETEAAVPKVTL CSEKEGLSLNSEEKLDSACLLKPREVVEPVVPKEPQNPPANAAP GSQRARKGRKKKSKEQPAACVEGYARRLRSSSRGQSTVGTEVTS QVDNLQKQPQEELQKESGPLQGKGKPRAWARAWAAALENSSPKN LERSAGQSSPAKEGPLDDLYPKLADTIQTNPIPTHLSLVDSAQAS PMPVDSVEADPTAVGPVLAGPVPVDPGLVDLASTSSELVEPLPA EPVLINPVLADSAAVDPAVVPISDNLPPVDAVPSGPAPVDLALV

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			DPVPNDLTPVDPVLVKSRPTDPRRGAVSSALGGSAPQLLVESES LDPPKTIIPEVKEVVDSLKIESGTSATTHEARPRPLSLSEYRRR RQQRQAETEERSPQPPTGKWPSLPETPTGLADIPCLVIPPAPAK KTALQRSPETPLEICLVPVGPSPASPSPEPPVSKPVASSPTEQV PSQEMPLLARPSPPVQSVSPAVPTPPSMSAALPFPAGGLGMPPS LPPPPLQPPSLPLSMGPVLPDPFTHYAPLPSWPCYPEVSPSGYP CLPPPPTVPLVSGTPGAYAVPPTCSVPWAPPPAPVSPYSSTCTY GPLGWGPGPQHAPFWSTVPPPPLPPASIGRAVPQPKMESRGTPA GPPENVLPLSMAPPLSLGLPGHGAPQTEPTKVEVKPVPASPHPK HKVSALVQSPQMKALACVSAEGVTVEEPASERLKPETQETRPRE KPPLPATKAVPTPRQSTVPKLPAVHPARLRKLSFLPTPRTQGSE DVVQAFISEIGIEASDLSSLLEQFEKSEAKKECPPPAPADSLAV GNSGGVDIPQEKRPLDRLQAPELANVAGLTPPATPPHQLWKPLA AVSLLAKAKSPKSTAQEGTLKPEGVTEAKHPAAVRLQEGVHGPS RVHVGSGDHDYC\VRSRTPPKK\MPALLIPEVGSRWNVKRHQDI TIKPVLSLGPAAPPPPCIAASREPLDHRTSSEQADPSAPCLAPS SLLSPEASPCRNDMNTRTPPEPSAKQRSMRCYRKACRSASPSSQ GWQGRRGRNSRSVSSGSNRTSEASSSSSSSSSSSRSRSRSLSPP HKRWRRSSCSSSGRSRRCSSSSSSSSSSSSSSSSSSSSSRSRSRS PSPRRRSDRRRRYSSYRSHDHYQRQRVLQKERAIEERRVVFIGK IPGRMTRSELKQRFSVFGEIEECTIHFRVQGDNYGFVTYRYAEE AFAAIESGHKLRQADEQPFDLCFGGRRQFCKRSYSDLDSNREDF DPAPVKSKFDSLDFDTLLKQAQKNLRR
5991	334	1379	RLSSHFSQCSPSIYC\TKFDKQGNVTSFERKKTELYQELGLQAR DLRFQHVMSITVRNNRIIMRMEYLKAVITPECLLILDYRNLNLK QWLFRELPSQLSGEGQLVTYPLPFEFRAIEALLQYWINTLQGKL SILQPLILETLDALGDPKHSSVDRSKLHILLQNGKSLSELETDI KIFKESILEILDEEELLEELCVSKWSDPQVFEKSSAGIDHAEEM ELLLENYYRLADDLSNAARELRVLIDDSQSIIFINLDSHRNVMM RLNLQLTMGTFSLSLFGLMGVAFGMNLESSLEEDHRIFWLITGI MFMGSGLIWRRLLSFLGR/LARSSIASYGMKDMVHGGIVEGL
5992	2	609	AGPDFRLVCGVSGSGFPGGRQGQATEWRPLRPWNGAMEKLRRVL SGQDDEECGLTAQDSQINL/SEVLDASSLSFNTRLKWFAICFVC GVFFSILGTGLLWLPGGIKLFAVFYTLGNLAALASTCFLMGPVK QLKKMFEATRLLATIVMLLCFIFTLCAALWWHKKGLAVLFCILQ FLSMTWYSLSYIPYARDAVIKCCSSLLS
5993	1650	594	AEGLGSWAVVWAGLGWAGRHMEAGGATGALGVGCKLPSAFCFPGS SVAMDMFQKVEKIGEGTYGVVYKAKNRETGQLVALKKIRLDLEM EGVPSTAIREISLLKELKHPNIVRLLDVVHNERKLYLVFEFLSQ DLKKYMDSTPGSELPLHLIKSYLFQLLQGVSFCHSHRVIHRDLK PQNLLINELGAIKLADFGLARAFGVPLRTYTHEVVTLWYRAPEI LLATRFYTTAVDIWSIGCIFAEMVTRKALFPGDS\EIDQ\LFRI FRMLGTPSEDTWPGVTQLPDYKGSFPKWTRKGLEEIVPNLEPEG RDLLMQLLQYDPSQRITAKTALAHPYFSSPEPSPAARQYVLQRF RH
5994	394	1934	AGEVQLHVWIRGMRIQPQ/KAAATIDLDPDFEPQSRPRSCTWPL PRPEIANQPSKPPEVEPDLGEKVHTEGRSEPILLPSRLPEPAGG PQPGILGAVTGPRKGGSRRNAWGNQSYAELISQAIESAPEKRLT LAQIYEWMVRTVPYFKDKGDSNSSAGWKNSIRHNLSLHSKFIKV HNEATGKSSWWMLNPEGGKSGKAPRRRAASMDSSSKLLRGRSKA PKKKPSGLPAPPEGATPTSPVGHFAKWSGSPCSRNREEADMWTT FRPRSSSNASSVSTRLSPLRPESEVLAEEIPASVSSYAGGVPPT LNEGLELLDGLNLTSSHSLLSRSGLSGFSLQHPGVTGPLHTYSS SLFSPAEGPLSAGEGCFSSSQALEALLTSDTPPPADVLMTQVD PILSQAPTLLLLGGLPSSSKLATGVGLCPKPLEAPGPSSLVPTL SMIAPPPVMASAPIPKALGTPVLTPPTEAASQDRMPQDLDLDMY MENLECDMDNIISDLMDEGEGLDFNFEPDP
5995	2	2437	RPPGPGPASGAWLCTRARGSAAFVPPLPRPPSRGARRRRRLPGR GVAALRRGPGSAPGLPRGRAERSAAGSGRGPSREERGAAAAAAA AEMMEELHSL\DP\RRQELLEARF\TGLGVSKGPLNSESSNQSL CSVGSLSDKEVETPEKKQNDQRNRKRKAEPYETSQGKGTPRGHK

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			ISDYFERRVEQPLYGLDGSAAKEATEEQSALPTLMSVMLAKPRL DTEQLAQRGAGLCFTFVSAQQNSPSSTGSGNTEHSCSSQKQISI QHRQT\QSDLTIEKISALENSKNSDLEKKEGRIDDLLRANCDLR RQI\DEQQKMLEKYK\ERLNRCFDNEPRNFLIEKSKQEKMACRD KSMQDRLRLGHFTTVRHGASFTEQWTDGYAFQNLIKQQERINSQ REEIERQRKMLAKRKPPAMGQAPPATNEQKQRKSKTNGAENETL TLAEYHEQEEIFKLRLGHLKKEEAEIQAELERLERVRNLHIREL KRIHNEDNSQFKDHPTLNDRYLLLHLLGRGGFSEVYKAFDLTEQ RYVAVKIHQLNKNWRDEKKENYHKHACREYRIHKELDHPRIVKL YDYFSLDTDSFCTVLEYCEGNDLDFYLKQHKLMSEKEARSIIMQ IVNALKYLNEIKPPIIHYDLKPGNILLVNGTACGEIKITDFGLS KIMDDDSYNSVDGMELTSQGAGTYWYLPPECFVVGKEPPKISNK VDVWSVGVIFYQCLYGRKPFGHNQSQQDILQENTILKATEVQFP PKPVVTPEAKAFIRRCLAYRKEDRIDVQQLACDPYLLPHIRKSV STSSPAGAAIASTSGASNNSSSN
5996	1612	981	DQQACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYLNSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSGEPHPAA FWAFLWFTGDSCYL\ANQWQVSKPKDNPLNEGTDASPGRPSPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAQP
5997	1612	981	DQQACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYLNSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSGEPHPAA FWAFLWFTGDSCYL\ANQWQVSKPKDNPLNEGTDASPGRPSPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAQP
5998	1612	981	DQQACLLGLMLTLEFGILEFDPSWIGSWTQR/SWVSWRSRPGCE LFSIVVFGSIVNEGYLNSASEGEEFCIYNRNPNACSYGVAVGVL AFLTCLLYLALDVYFPQISSVKDRKK\AVLSGHPVVSGEPHPAA FWAFLWFTGDSCYL\ANQWQVSKPKDNPLNEGTDASPGRPSPFS FFSIFTWSLTAALAVRRFKDLSFQEEYSTLFP\ASAQP
5999	2	1790	RPPMEKARRGGDGVPRGPVLHIVVVGFHHKRGCQVEFSYPPLIP GDGHDSHTLPEEWKYLPFLALPDGAHNYQEDTVFFHLPPRNGNG ATVFGISCYR\QIEAKALKVRQADITRETVQKSVCVLSKLPLYG LLQAKLQLITHAYFEEKDFSQISILKELYEHMNSSLGGASLEGS QVYLGLSPRDLVLHFRHKGLILFKLILLEKKVLFYISPVNKLVG ALMTVLSLFPGMIEHGLSDCSQYRPRKSMSEDGGLQESNPCADD FVSASTADVSHTNLGTIRKVMAGNHGEDAAMKTEEPLFQVEDSS KGQEPNDTNQYLKPPSRPSPDSSESDWETLDPSVLEDPNLKERE QLGSDQTNLFPKDSVPSESLPITVQPQANTGQVVLIPGLISGLE EDQYGMPLAIFTKGYLCLPYMALCQHHLLSDVTVRGFVAGATNI LFRQQKHLSDAIVEVEEALIQIHDPELRKLLNPTTADLRFADYL VRHVTENRDDVFLDGTGWEGGDEWIRAQFAVYIHALLAATLQLV LFRIVNVAKKIGNVMVTT\SRNVVQTGK\AVGQSVGGAFS\SAK TA\MSSWLSTFTTSTSQSLTEPPDEKP
6000	101	1561	TEPCRTAENCTATMSENNKNSLESSLRQLKCHFTWNLMEGENSL DDPEDKVFYRTEFQNREFKATMCNLLAYLKHLGQNEAALECLR KAEELIQQEHADQAEIRSLVTWGNYAWVYYHMGRLSDVQIYVDK VKHVCEKFSSPYRIESPELDCEEGWTRLKCGGNQNERAKVCFEK ALEKKPKNPEFTSGLAIASYRLDNWPPSQNAIDPLRQAIRLNPD NQYLKVLLALKLHKMREEGEEEGEGEK\LVEEALEKAPG\VTDV LRSAA\KFYRGKDEPDKAIELLKKALEYIP\NNAYLHCQIGCCY RAKVFQVMNLRENGMYGKRKLLELIGHAVAHLKKADEANDNLFR VCSILASLHALADQYEDAEYYFQKEFSKELTPVAKQLLHLRYGN FQLYQMKCEDKAIHHFIEGVKINQKSREKEKMKDKLQKIAKMRL SKNGADSEALHVLAFLQELNEKMQQADEDSERGLESGSLIPSAS SWNGE
6001	176	1038	AFAHSPSRGHRHTHIHTPRHTPRCTMAESHLQSSLITASQFFEI WLHFDADGSGYLEGKELQNLIQELQQARKKAGLELSPEMKTFVD QYGQRDDGKIGIVELAHVLPTEENFLLLFRCQQLKSCE\EFMKT WRKYDTDHSGFIETEELKNFLKDLLEKANKTVDDTKLAEYTDLM

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			LKLFDSNNDGKLELTEMARLLPVQENFLLKFQGIKMCGKEFNKA FELYDQDGNGYIDENELDALLKDLCEKNKQDLDINNITTYKKNI MALSDGGKLYRTDLALILCAGDN
6002	977	81	LAPPGGGLHIPPRTPLSHSRPPPSHHAPHPSPLPLPPADLHPHS SMAQRSDLLELDCQLTRDRVVVVSHDENLCRQSGLNRDVGSLDF EDLPLYKEKLEVYFSPGHFAHGSDRRMVRLEDLFQRFPRTPMSV EIKGKNEELIREC/VLVRRYDRNEITIWASEKSSVMKKCKAANP EMPLSFTISRGFWVLLSYYLGLLPFIPIPEKFFFCFLPNIINRT YFPFSCSCLNQLLAVVSKWLIMRKSLIRHLEERGVQVVFWCLNE ESDFEAAFSVGATGVITDYPTALRHYLDNHGPAARTS
6003	140	4098	GKLRAFRGMRRLICKRICDYKSFDDEESVDGNRPSSAASAFKVP APKTSGNPANSARKPGSAGGPKVGAGASKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHDWDQRANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVREACITVA HLSTVLGNKFDHGAEAIVPTLFNLVPNSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLE RHAAVLVETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSS KWSTANPSTVAGRVSAGSSKASSLPGSLQRSRSDIDVNAAAGAK AHHAAGQSVRSGRLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNAKADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQRVLVNSASAQKRSKIPRSQGCSREASPSRLSV ARSSRIPRPSVSQGCSREASRESSRDTSPVRSFQPLASRHHSRS TGALYAPEVYGASGPGYGISQSSRLSSSVSAMRVLNTGSDVEEA VADALLLGDIRTKKKPARRRYESYGMHSDDDANSDASSACSERS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDPI QVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDVTRES FPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPGD FINSSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFELNTPE FTMLLGALPKTFQDGATKLLHNHLRNTGNGTQSSMGSPLTRPTP RSPANWSSPLTSPTNTSQNTLSPSAFDYDTENMNSEDIYSSLRG VTEAIQNFSFRSQEDMNEPLKRDSKKDDGDSMCGGPG\MSDPRA GGDATDSSQTAL\DNKASLLHSMPTHSSPRSRDYNPYNYSDSIS PFNKSALKEAMFDDDADQFPDDLSLDHSDLVAELLKELSNHNER VEERKIALYELMKLTQEESFSVWDEHFKTILLLLLETLGDKEPT IRALALKVLREILRHQPARFKNYAELTVMKTLEAHKDPHKEVVR SAEEAASV\LATSI\SPEQCIKVLCPIIQTADYPINLAAIKMQT KVIERVSKETLNLLLPEIMPGLIQGYDNSESSVRKACVFCLVAV HAVIGDELKPHLSQLTGSKMKLLNLYIKRAQTGSGGADPTTDVS GQS
6004	140	4098	GKLRAFRGMRRLICKRICDYKSFDDEESVDGNRPSSAASAFKVP APKTSGNPANSARKPGSAGGPKVGAGASKEGGAGAVDEDDFIKA FTDVPSIQIYSSRELEETLNKIREILSDDKHDWDQRANALKKIR SLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVREACITVA HLSTVLGNKFDHGAEAIVPTLFNLVPNSAKVMATSGCAAIRFII RHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLE RHAAVLVETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLY NSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSS KWSTANPSTVAGRVSAGSSKASSLPGSLQRSRSDIDVNAAAGAK AHHAAGQSVRSGRLGAGALNAGSYASLEDTSDKLDGTASEDGRV RAKLSAPLAGMGNAKADSRGRSRTKMVSQSQPGSRSGSPGRVLT TTALSTVSSGVQRVLVNSASAQKRSKIPRSQGCSREASPSRLSV ARSSRIPRPSVSQGCSREASRESSRDTSPVRSFQPLASRHHSRS TGALYAPEVYGASGPGYGISQSSRLSSSVSAMRVLNTGSDVEEA VADALLLGDIRTKKKPARRRYESYGMHSDDDANSDASSACSERS YSSRNGSIPTYMRQT\EDV\AEVLNRCASSNWSERKEGLLGLQN LLKNQRTLSRVELKRLCEIFTRMFADPHGKRVFSMFLETLVDFI QVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDVTRES FPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPGD FINSSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFELNTPE

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			FTMLLGALPKTFQDGATKLLHNHLRNTGNGTQSSMGSPLTRPTP RSPANWSSPLTSPTNTSQNTLSPSAFDYDTENMNSEDIYSSLRG VTEAIQNFSFRSQEDMNEPLKRDSKKDDGDSMCGGPG\MSDPRA GGDATDSSQTAL\DNKASLLHSMPTHSSPRSRDYNPYNYSDSIS PFNKSALKEAMFDDDADQFPDDLSLDHSDLVAELLKELSNHNER VEERKIALYELMKLTQEESFSVWDEHFKTILLLLLETLGDKEPT IRALALKVLREILRHQPARFKNYAELTVMKTLEAHKDPHKEVVR SAEEAASV\LATSI\SPEQCIKVLCPIIQTADYPINLAAIKMQT KVIERVSKETLNLLLPEIMPGLIQGYDNSESSVRKACVFCLVAV HAVIGDELKPHLSQLTGSKMKLLNLYIKRAQTGSGGADPTTDVS GQS
6005	133	5955	RSSGRRQEQLGQFPGRERKGMASGLGSPSPCSAGSEEEDMDALL NNSLPPPHPENEEDPEEDLSETETPKLKKKKKPKKPRDPKIPKS KRQKKERMLLCRQLGDSSGEGPEFVEEEEEVALRSDSEGSDYTP GKKKKKKLGPKKEKKSKSKRKEEEEEDDDDDDDSKEPKSSAQLL EDWGMEDIDHVFSEEDYRTLTNYKAFSQFVRPLIAAKNPKIAVS KMMMVLGAKWREFSTNNPFKGSSGASVAAAAAAVAVVESMVTA TEVAPPPPPVEVPIRKAKTKEGKGPNARRKPKGSPRVPDAKKPK PKKVAPLKIKLGGFGSKRKRSSSEDDDLDVESDFDDASINSYSV SDGSTSRSSRSRKKLRTTKKKKKGEEEVTAVDGYETDHQDYCEV CQQGGEIILCDTCPRAYHMVCLDPDMEKAPEGKWSCPHCEKEGI QWEAKEDNSEGEEILEEVGGDLEEEDDHHMEFCRVCKDGGELLC CDTCPSSYHIHCLNPPLPEIPNGEWLCPRCTCPALKGKVQKILI WKWGQPPSPTPVPRPPDADPNTPSPKPLEGRPERQFFVKWQGMS YWHCSWVSELQLELHC\QVMFRNYQRKNDMDEPPSGDFGGDEEK S\RKRKNKDPKFAEMEERFYRYGIKPEW\MMIHRILNHSVDKKG HVHYLIKWRDLPYDQASWESEDVEIQDYDLFKQSYWNHRELMRG EEGRPGKKLKKVKLRKLERPPETPTVDPTVKYERQPEYLDATGG TLHPYQMEGLNWLRFSWAQGTDTILADEMGLGKTVQTAVFLYSL YKEGHSKGPFLVSAPLSTIIN\WEREFEMWAPDMYV\VTYVGDK DSRAIIRENEFS\FEDNAIRGGKKASRMKKEASVKFHVLLTSYE LITIDMAILGSIDWACLIVDEAHRLKNNQSKFFRVLNGYSLQHK LLLTGTPLQNNLEELFHLLNFLTPERFHNLEGFLEEFADIAKED QIKKLHDMLG\PHMLRRLKADVFKNMPSKTELIV\RVELSPM\Q KKYYK\YILHSKFLKALN\ARGGGNQVSLLNVVMDLKKCCNHPY LFPVAAMEAPKMPNGMYDGSALIRASGKLLLLQKMLKNLKEGGH RVLIFSQMTKMLDLLEDFLEHEGYKYERIDGGITGNMRQEAIDR FNAPGAQQFCFLLSTRAGGLGINLATADTVIIYDSDWNPHNDIQ AFSRAHRIGQNKKVMIYRFVTRASVEERITQVAKKKMMLTHLVV RPGLGSKTGSMSKQELDDILKFGTEELFKDEATDGGGDNKEGED SSVIHYDDKAIERLLDRNQDETEDTELQGMNEYLSSFKVAQYVV REEEMGEEEEVEREIIKQEESVDFDYWEKLLRHHYEQQQEDLAR NLGKGKRIRKQVNYNDGSQEDRDWQDDQSDNQSDYSVASEEGDE DFDERSEAPRRPSRKGLRNDKDKPLPPLLARVGGNIEVLGFNAR QRKAFLNAIMRYGMPPQDAFTTQWLVRDLRGKSEKEFKAYVSLF MRHLCEPGADGAETFADGVPREGLSRQHVLTRIGVMSLIRKKVQ EFEHVNGRWSMPELAEVEENKKMSQPGSPSPKTPTPSTPGDTQP NTPAPVPPAEDGIKIEENSLKEEESIEGEKEVKSTAPETAIECT QAPAPASEDEKVVVEPPEGEEKVEKAEVKERTEEPMETEPKGKG AADVEKVEEKSAIDLTPIVVEDKEEKKEEEEKKEVMLQNGETPK DLNDEKQKKNIKQRFMFNIADGGFTELHSLWQNEERAATVTKKT YEIWHRRHDYWLLAGIINEGYARWQDIQNDPRYAILNEPFKGEM NRGNFLEIKNKFLARRFKLLEQALVIEEQLRRAAYLNMSEDPSH PSMALNTRFAEVECLAESHQHLSKESMAGNKPANAVLHKVLKQL EELLSDMKADVTRLPATIARIPPVAVRLQMSERNILSRLANRAP EPTPQQVAQQQ
6006	1	965	DNDFLRNTVHRHEPPVTAEPIRLLAENEDVVVVDKPSSIPVHPC GRFRHNTVIFILGKEHQLKELHPLHRLDRLTSGVLMFAKTAAVS ERIHEQVRDRQLEKEYVCRVEGEFPTEEVTCKEPILVVSYKVGV CRVDPRGKPCETVFQRLSYNGQSSVVRCRPLTGRTHQIRVHLQF LGHPILNDPIYNSVAWGPSRGRGGYIPKTNEELLRDLVAEHQAK

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			QSLDVLDLCEGDLSPGLTDSTAPSSELGKDDLEELAAAA\QKME EVAEAAPQELDTIALASEKAVETDVMNQ\RQT\TLCRVPAGATG SLAPRPCDVPTCPTL
6007	3	2351	HELGQVEYVFTDKTGTLTENEMQFRECSINGMKYQEINGRLVPE GPTPDSSEGNLSYLSSLSHLNNLSHLTTSSSFRTSPENETELIK EHDLFFKAVSLCHTVQINNVQTDCTGDGPWQSNLAPSQLEYYAS SPDEKALVEAAARIGIVFIGNSEETMEVKTLGKLERYKLLHILE FDSDRRRMSVIVQAPSGEKLLFAKGAESSILPKCIGGEIEKTRI HVDEFALKGLRTLCIAYRKFTSKEYEEIDKRIFEARTALQQR\E EKLAAVFQFIEKDLILLGATAVEDRLQDKVRETIEALRMAGIKV WVLTGDKHETAVSVSLSCGHFHRTMNILELINQKSDSECAEQLR QLARRITEDHVIQHGLVVDGTSLSLALREHEKLFMEVCRNCSAV LCCRMAPLQKAKVIRLIKISPEKPITLAVGDGANDVSMIQEAHV GIGIMGKEGRQAARNSDYAIARFKFLSKLLFVHGHFYYIRIATL VQYFFYKNVCFITPQFLYQFYCLFSQQTLYDSVYLTLY\NICFT SLPILIYSLLEQHVDPHVLQNKPTLYRDISKNRLLSIKTFLYWT ILGFSHAFIFFFGSYLLIGKDTSLLGNGQMFGNWTFGTLVFTVM VITVTVKMALETHFWTWINHLVTWGSIIFYFVFSLFYGGILWPF LGSQNMYFVFIQLLSSGSAWFAIILMVVTCLFLDIIKKVFDRHL HPTSTEKAQLTETNAGIKCLDSMCCFPEGEAACASVGRMLERVI GRCSPTHISRSWSASDPFYTNDRSILTLSTMDSSTC
6008	4554	1089	AGVRRAGARRGPGRALPAGATAVPPPSARRRRRCPAPEHAGPAR ASRPSQETMFQLPVNNLGSLRKARKTVKKILSDIGLEYCKEHIE DFKQFEPNDFYLKNTTWEDVGLWDPSLTKNQDYRTKPFCCSACP FSSKFFSAYKSHFRNVHSEDFENRILLNCPYCTFNADKKTLETH IKIFHAPNASAPSSSLSTFKDKNKNDGLKPKQADSVEQAVYYCK KCTYRDPLYEIVRKHIYREHFQHVAAPYIAKAGEKSLNGAVPLG SNAREESSIHCKRCLFMPKSYEALVQHVIEDHERIGYQVTAMIG HTNVVVPRSKPLMLIAPKPQDKKSMGLPPRIGSLASGNV\RSLP SQQMVNRLSIPKPNLNSTGVNMMSSVHLQQNNYGVKSVGQGYSV GQSMRLGLGGNAPVSIPQQSQSVKQLLPSGNGRSYGLGSEQRSQ APARYSLQSANASSLSSGQLKSPSLSQSQASRVLGQSSSKPAAA ATGPPPGNTSSTQKWKICTICNELFPENVYSVHFEKEHKAEKVP AVANYIMKIHNFTSKCLYCNRYLPTDTLLNHMLIHGLSCPYCRS TFNDVEKMAAHMRMVHIDEEMGPKTDSTLSFDLTLQQGSHTNIH LLVTTYNLRDAPAESVAYHAQNNPPVPPKPQPKVQEKADIPVKS SPQAAVPYKKDVGKTLCPLCFSILKGPISDALAHHLRERHQVIQ TVHPVEKKLTYKCIHCLGVYTSNMTASTITLHLVHCRGVGKTQN GQDKTNAPSRLNQSPSLAPVKRTYEQMEFPLLKKRKLDDDSDSP SFFEEKPEEPVVLALDPKGH\EDDSYEARKSFLTKYFT\KQPYP TRREIEKLAASLWV\WK\SDIASHFSNKRKKCVRDCEKYKPGVL LGFNMKELNKVKHEMDFDAEGLFENHDEKDSRVNASKTADKKLN LGKEDDSSSDSFENLEEESNESGSPFDPVFEVEPKISNDNPEEH VLKVIPEDASESEEKLDQKEDGSKYETIHLTEEPTKLMHNASDS EVDQDDVVEWKDGASPSESGPGSQQVSDFEDNTCEMKPGTWSDE SSQSEDARSSKPAAKKKATMQGDREQLKWKNSSYGKVEGFWSKD QSQWKNASENDERLSNPQIEWQNSTIDSEDGEQFDNMTDGVAEP MHGSLAGVKLSSQQA
6009	4272	1534	CHGLQHLTPFRELNLSLQG*EPH*AA*QAVRSEEKSIC*GSPSC HLVLGVLVPVARQSSHSAGPAQSAFR*TGTGSGTPKAAEQSGYW EAYTLGHQHWNMFPIQRPPLVMKGRRIMCGKCEKG*VSDSVTGG RAVAGEQASQRRTVFTAGGGECLGAKSVRASVFTGNQPGVMGLL NGKRGGCFESGYLFGPIVIGKIQSLEAKVPLPVNGQTGERASPG NCRIHIVDAVC*SEHH*DHFLAAAFLENSTIIS*VAPGSWQDHA VLQKEVQASVRCRGFESVDTAPAGFWAHSPPGLQGEPTTTSVSL FVLAPQDGEGVPFVEGQLVTVLGLVVPQSIRHTFVHHTQLFLHP I*KLGALDVAFLHLLTLVCSSFNVAYG*GKNGGTTLHQLFAEVN AVTRGSAVQRRPSITISSIHVDTKIQQELHDVMVAGADGVVQWG DPFVVGLAGIFHLIDDPLHQIELSFQRRV*EQCQGVKPDSQPVP RPLRVGLLQVGPLVRGGGRRVAGRGKRCWRDLLFPWRWGLSHRT RDLLRGGDRGHVVVIVLCRLGSLVGGLGTDELLWFGGR*LIIG

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			I**RGRLSGEWGCGLGRGELFQVSIGIGVSIVHIGQGDHEVLGG AGLVERGALHATGQGVEALVQQLLDVGPAGALGLCDGAALFQGP GRVGQLPAEGLQVCITLVAQWRMHDGRELGGAFWPWQALHGAAI CGVGGAILLKALSQYFLKGG*RLWCARGQ*PVKKRQRRWRG*TR R*NGLTIHCFN*LI*GAVCCRLVILRWCGLLEVHGVYGT*IHCL GSFPGRLWP*PFISQERPNGHCQWEFRLAVPSWKCRWSRWRVRG TWRYGNPLLNLL*GAWLGGAACGGQQGGFLSTWQACTGPGQAAF LPPFQGACRPRTQRCRTWVCPIAWRQLLAYTRD
6010	1	3533	IMPCGSSRLLRGCWTHPNEPVSDLSYFDCIESVMENSKVLGESM AGISQNAKTGDLPAFGECVGIASKALCGLTEAAAQAAYLVGIFD PNSQAGHQGLVDPIQFARANQAIQMACQNLVDPGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANL VKTIKALDGDFSEDNRNKCRIATAPLIEAVENLTAFASNPEFVS IPAQISSEGSQAQEPILVSAKPMLESSSYLIRTARSLAINPKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRC IRDIEQASLAAVSQSLATRDDISVEALQEQLTSVVQEIGHLIDP IATAARGEAAQLGHKGTQLASYFBPLILAAVGVASKILDHQQQM TVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEAQLMK EAVDDIMVTLNEAASEVGLVGGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSKAIAVTAQEMMTKSVTNPEELGGLASQMTSD YGHLAFQGGQMAAATAEPEEIGFQIRTRVQDLGHGCIFLVQKAG\ ALQVCPTDSYTKRELIECARAVTEKVSLVLSALQAGNKGTQACI TAATAVSGIIADLDTTIMFATAGTLNAENSETFADHRENILKTA KALVEDTKLLVSGAASTPDKLAQAAQSSAATITQLAEVVKLGAA SLGSDDPETQVVLINAIKDVAKALSDLISATKGAASKPVDDPSM YQLKGAAKVMVTNVTSLLKTVKAVEDEATRGTRALEATIBCIKQ ELTVFQSKDVPEKTSSPEESIRMTKGITMATAKAVAAGNSCRQE DVIATANLSRKAVSDMLTACKQASFHPDVSDEVRTRALRFGTEC TLGYLDLLEHVLVILQKPTPELKQQLAAFSKRVAGAVTELIQAA EAMKGTEWVDPEDPTVIAETELLGAAASIEAAAKKLEQLKPRAK PKQADETLDFEEQILEAAKSIAAATSALVKSASAAQRELVAQGK VGSIPANAADDGQWSQGLISAARMVAAATSSLCEAANASVQGHA SEEKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAAGNAV KRASDNLVRAAQKAAFGKADDDDVVVKTKFVGGIAQIIAAQEEM LKKERELEEARKKLAQIRQQQYKFLPTELREDEG
6011	446	1835	LLQPAMRKSPGLSDCLWAWILLLSTLTGRSYGQPSLQDELKDNT TVFTRILDRLLDGYDNRLRPGLGERVTEVKTDIFVTSFGPVSDH DMEYTIDVFFRQSWKDERLKFKGPMTVLRLNNLMASKIWTPDTF FHNGKKSVAHNMTMPNKLLRITEDGTLLYTMRLTVR\AECPMAF GRDFPM\D\AHACPLKFGSYAYTRAEVVYEWTREPARSVVVAED GSRLNQYDLLGQTVDSGIVQSSTGEYVVMTTHFHLKRKIGYFVI QTYLPCIMTVILSQVSFWLNRESVPARTVFGVTTVLTMTTLSIS ARNSLPKVAYATAMDWFIAVCYAFVFSALIEFATVNYFTKRGYA WDGKSVVPEKPKKVKDPLIKKNNTYAPTATSYTPNLARGDPGLA TIAKSATIEPKEVKPETKPPEPKKTFNSVSKIDRLSRIAFPLLF GIFNLVYWATYLNREPQLKAPTPHQ
6012	351	5013	PAELFQSFAIWHKELYDWRLGPWNQCQPVISKSLEKPLECIKGE EGIQVREIACIQKDKDIPAEDIICEYFEPKPLLEQACLIPCQQD CIVSEFSAWSECSKTCGSGLQHRTRHVVAPPQFGGSGCPNLTEF QVCQSSPCEAEELRYSLHVGPWSTCSMPHSRQVRQARRRGKNKE REKDRSKGVKDPEARELIKKKRNRNRQNRQENKYWDIQIGYQTR EVMCINKTGKAADLSFCQQEKLPMTFQSCVITKECQVSEWSEWS PCSKTCHDMVSPAGTRVRTRTIRQFPIGSEKECPEFEEKEPCLS QGDGVVPCATYGWRTTEWTECRVDPLLSQQDKRRGNQTALCGGG IQTREVYCVQANENLLSQLSTHKNKEASKPMDLKLCTGPIPNTT QLCHIPCPTECEVSPWSAWGPCTYENCNDQQGKKGFKLRKRRIT NEPTGGSGVTGNCPHLLEAIPCEEPACYDWKAVRLGDCEPDNGK ECGPGTQVQEVVCINSDGEEVDRQLCRDAIFPIPVACDAPCPKD CVLSTWSTWSSCSHTCSGKTTEGKQIRARSILAYAGEEGGIRCP NSSALQEVRSCNEHPCTVYHWQTGPWGQCIEDTSVSSFNTTTTW NGEASCSVGMQTRKVICVRVNVGQVGPKKCPESLRPETVRPCLL

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			PCKKDCIVTPYSDWTSCPS\SCKEGDSSIRKQSRHRVIIQLPAN GGRDCTDPLYEEKACEAPQACQSYRW\KTHKW\HRCQ\LVP\WS VQQDSP\GAQEGCGPGRQARAITCRKQDGGQAGIHECLQYAGPV PALTQACQIPCQDDCQLTSWSKFSSCNGDCGAVRTRKRTLVGKS KKKEKCKNSHLYPLIETQYCPCDKYNAQPVGNWSDCILPEGKVE VLLGMKVQGDIKECGQGYRYQAMACYDQNGRLVETSRCNSHGYI EEACIIPCPSDCKLSEWSNWSRCSKSCGSGVKVRSKWLREKPYN GGRPCPKLDHVNQAQVYEVVPCHSDCNQYLWVTEPWSICKVTFV NMRENCGEGVQTRKVRCMQNTADGPSEHVEDYLCDPEEMPLGSR VCKLPCPEDCVISEWGPWTQCVLPCNQSSFRQRSADPIRQPADE GRSCPNAVEKEPCNLNKNCYHYDYNVTDWSTCQLSEKAVCGNGI KTRMLDCVRSDGKSVDLKYCEALGLEKNWQMNTSCMVECPVNCQ LSDWSPWSECSQTCGLTGKMIRRRTVTQPFQGDGRPCPSLMDQS KPCPVKPCYRWQYGQWSPCQVQEAQCGEGTRTRNISCVVSDGSA DDFSKVVDEEFCADIELIIDGNKNMVLEESCSQPCPGDCYLKDW SSWSLCQLTCVNGEDLGFGGIQVRSRPVIIQELENQHLCPEQML ETKSCYDGQCYEYKWMASAWKGSSRTVWCQRSDGINVTGGCLVM SQPDADRSCNPPCSQPHSYCSETKTCHCEEGYTEVMSSNSTLEQ CTLIPVVVLPTMEDKRGDVKTSRAVHPTQPSSNPAGRGRTWFLQ PFGPDGRLKTWVYGVAAGAFVLLIFIVSMIYLACKKPKKPQRRQ NNRLKPLTLAYDGDADM
6013	1161	710	GAFIAGVPVQPVLIRYPNSLDTTSWAWRGPGVLKVLWLTASQPC SIVDVEFLPVYHPSPEESRDPTLYANNVQRVMAQALGIPATECE FVGSLPVIVVGRLKVALEPQL/WGTGKSASEGWAVRWLCGRWGR ARPESNDQPGRVCQAATAL
6014	2857	613	EAVAGGMEKSRMNLPKGPDTLCFDKDEFMKEDFDVDHFVSDCRK RVQLEELRDDLELYYKLLKTAMVELINKDYADF\VNLSTNLVGM DKALNQLSVPLGQLREEVLSLRSSVSEGIRAVDERMSKQEDIRK KKMCVLRLIQVIRSVEKIEKILNSQSSKETSALEASSPLLTGQI LERIATEFNQLQFHACQSK\GMPLLDKVRPRIAGITAMLQQSLE GLLLEGLQTSDVDIIRHCLRTYATIDKTRDAEALVGQVLVKPYI DEVIIEQFVESHPNGLQVMYNKLLEFVPHHCRLLREVTGGAISS EKGNTVPGYDFLVNSVWPQIVQGLEEKLPSLFNPGNPDAFHEKY TISMDFVRRLERQCGSQASVKRLRAHPAYHSFNKKWNLPVYFQI RFREIAGSLEAALTDVLEDAPAESPYCLLASHRTWSSLRRCWSD EMFLPLLVHRLWRLHSGRFWARYSVFV\N\ELSLRPISNESPKE IKKPLVTGSKEPSITQGNTEDQGSGPSETKPVVSISRTQLVYVV ADLDKLQEQLPELLEIIKPKLEMIGFKNFSSISAALEDSQSSFS ACVPSLSSKIIQDLSDSCFGFLKSALEVPRLYRRTNKEVPTTAS SYVDSALKPLFQLQSGHKDKLKQAIIQQWLEGTLSESTHKYYET VSDVLNSVKKMEESLKRLKQARKTTPANPVGPSGGMSDDDKIRL QLALDVEYLGEQIQKLGLQASDIKSFSALAELVAAAKDQATAEQ P
6015	13	2237	AEGCAERRGTEPVVELSMSWESGAGPGLGSQGMDLVWSAWYGKC VKGKGSLPLSAHGIVVAWLSRAEWDQVTVYLFCDDHKLQRYALN RITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLY GMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDWIVDLRHELT HKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFR EGIEEEDQEEDKNIVVDDITEQKPEPQDDGKSTESDVKADGDSK GSEEVDSHCKKALSHKELYERARELLVSYEEEQFTVLEKFRYLP KAIKAWNNPSPRVECVLAELKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYEENVDLNDVLVPKPFSQFWQPLLRGLHSQNFTQ ALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRF SAGQWEARRGWRLFNCSASLDWPRMVESCLGSPCWASPQLLRII F\KAMGQGLQDE\EQEKLLRICSIYTQSGENSLVQEGSEASPIG KSPYTLDSLYWSVKPASSSFGSEAKAQQQEQGSVNDVKEEEKE EKEVLPDQVEEEEENDDQEEEEEDEDDEDDEEEDRMEVGPFSTG QESPTAENARLLAQKRGALQGSAWQVSSEDVRWDTFP\LGRMPR SRPRTPAELMLENYDTHVIFWTKPVL\EQRLEPSTCK\TDTLGL \SCGVGS\GNCSNSSSSSNFRGAFLLEARGSLH\GL\KTGLQLF
6016.	13	2237	AEGCAERRGTEPVVELSMSWESGAGPGLGSQGMDLVWSAWYGKC

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			VKGKGSLPLSAHGIVVAWLSRAEWDQVTVYLFCDDHKLQRYALN RITVWRSRSGNELPLAVASTADLIRCKLLDVTGGLGTDELRLLY GMALVRFVNLISERKTKFAKVPLKCLAQEVNIPDWIVDLRHELT HKKMPHINDCRRGCYFVLDWLQKTYWCRQLENSLRETWELEEFR EGIEEEDQEEDKNIVVDDITEQKPEPQDDGKSTESDVKADGDSK GSEEVDSHCKKALSHKELYERARELLVSYEEEQFTVLEKFRYLP KAIKAWNNPSPRVECVLAELKGVTCENREAVLDAFLDDGFLVPT FEQLAALQIEYEENVDLNDVLVPKPFSQFWQPLLRGLHSQNFTQ ALLERMLSELPALGISGIRPTYILRWTVELIVANTKTGRNARRF SAGQWEARRGWRLFNCSASLDWPRMVESCLGSPCWASPQLLRII F\KAMGQGLQDE\EQEKLLRICSIYTQSGENSLVQEGSEASPIG KSPYTLDSLYWSVKPASSSFGSEAKAQQQEEQGSVNDVKEEEKE EKEVLPDQVEEEEENDDQEEEEEDEDDEDDEEEDRMEVGPFSTG QESPTAENARLLAQKRGALQGSAWQVSSEDVRWDTFP\LGRMPR SRPRTPAELMLENYDTHVIFWTKPVL\EQRLEPSTCK\TDTLGL \SCGVGS\GNCSNSSSSNFRGAFLLEARGSLH\GL\KTGLQLF
6017	203	3469	SHQEIEQNSAMAPRKRGGRGISFIFCCFRNNDHPEITYRLRNDS NFALQTMEPALPMPPVEELDVMFSELVDELDLTDKHREAMFALP AEKKWQIYCSKKKDQEENKGATSWPEFYIDQLNSMAARKSLLAL EKEEBEERSKTIESLKTALRTKPMRFVTRFIDLDGLSCILNFLK TMDYETSESRIHTSLIGCIKALMNNSQGRAHVLAHSESINVIAQ SLSTENIKTKVAVLEILGAVCLVPGGHKKVLQAMLHYQKYASER TRFQTLINDLDKSTGRYRDEVSLKTAIMSFINAVLSQGAGVESL DFRLHLRYE\FLMLGIHPVMDKLRKHENSTLDRHLDFFEMLRNE DELEFAKRFELVHIDTKSATQMFELTRKRLTHSEAYPHFMSILH HCLQMPYKRSGNTVQYWLLLDRIIQQIVIQNDKGQDPDSTPLEN FNIKNVVRMLVNENEVKQWKEQABKMRKEHNELQQKLEKKEREC DAKTQEKEEMMQTLNKMKEKLEKETTEHKQVKQQVADLTAQLHE LSRRAVCASIPGGPSPGAPGGPFPSSVPGSLLPPPPPPPLPGGM LPPPPPPLPPGGPPPPPGPPPLGAIMPPPGAPMGLALKKKSIPQ PTNALKSFNWSKLPENKLEGTVWTEIDDTKVFKILDLEDLERTF SAYQRQQDFFVNSNSKQKEADAIDDTLSSKLKVKELSVIDGRRA QNCNILLSRLKLSNDEIKRAILTMDEQEDLPKDMLEQLLKFVPE KSDIDLLEEHKHELDRMAKADRFLFEMSRINHYQQRLQSLYFKK KFAERVAEVKPKVEAIRSGSEEVFRSGALKQLLEVVLAFGNYMN KGQRGNAYGFKISSLNKIADTKSSIDKNITLLHYLITIVENKYP SVLNLNEELRDIPQAAKVNMTELDKEISTLRSGLKAVETELEYQ KSQPPQPGDKFVSVVSQFITVASFSFSDVEDLLAEAKDLFTKAV KHFGEEAGKIQPDEFFGIFDQFLQAVSEAKQENENMRKKKEEEE RRARMEAQLKEQRERERKMRKAKENSEESGEFDDLVSALRSGEV FDKDLSKLKRNRKRITNQMTDSSRERPITKLNF
6018	13	2510	TISQSGGIRRRREAVWFEVVNMDFSRLHMYSPPQCVPENTGYTY ALSSSYSSDALDFETEHKLDPVFDSPRMSRRSLRLATTACTLGD GEAVGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSRQV TSSGVSYGGTVSLQDAVTRRPPVLDESWIREQTTVDHFWGLDDD GDLKGGNKAAIQGNGDVGAGAATGHNGFFCSNCNMLSERKDVLT AHPAAPGPVSRVYSRDRNQKCDDCKGKRHLDAHPGRAGTLWHIW ACAGYFLLQILRRIGAVGQAVSRTAWSALWLAVVAPGKAASGVF WWLGIGWYQFVTLISWLNVFLLTRCLRNICKFLVLLIPLFLLLG LSLRGQG\NFFSFLPVLNWASMHRTQRVDDPQDVFKPTTSRLKQ PLQGDSEAFPWHWMSGVEQQVASLSGQCHHHGENLRELTTLLQK LQARVDQMEGGAAGPSASVRDAVGQPRETDFMAFHQEHEVRMS HLEDILGKLREKSEAIQKELEQTKQKTISAVGEQLLPTVEHLQL ELDQLKSELSSWRHVKTGCETVDAVQERVDVQVREMVKLLFSED QQGGSLEQLLQRFSSQFVSKGDLQTMLRDLQLQILRNVTHHVSV TKQLPTSEAVVSAVSEAGASGITEAQARAIVNSALKLYSQDKTG MVDFALESGGGSILSTRCSETYETKTALMSLFGIPLWYFSQSPR VVIQPDIYPGNCWAFKGSQGYLVVRLSMMIHPAAFTLEHIPKTL SPTGNISSAPKDFAVYGLENEYQEEGQLLGQFTYDQDGESLQMF QALKRPDDTAFQIVELRIFSNWGHPEYTCLYRFRVHGEPVK
6019	2	1066	TPNDREPPPQRPPSSRRASHLAQEITSAASLGDQTQILGSLTTA

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			PVITSAIRSMPGISSQILTNAQGQVIGTLPWVVNSASVAAPAPA QSLQVQAVTPQLLLNAQGQVIATLASSPLPPPVAVRK\PSTPES LLKSEVQPIKPTPTVPQPAVVIASPAPAAKPSASAPIPITCSET PTVSQLVSKPHTPSLDEDGINLEEIREFAKNFKIRRLSLGLTQT QVGQALTATEGPAYSQSAICRFEKLDITPKSAQKLKPVLEKWLN EAELRNQEGQQNLMEFVGGEPSKKRKRRTSFTPQAIEALNAYFE KNPLPTGQEITEIAKELNYDREVVRVWFCNRRQTLKNTSKLNVF QIP
6020	4953	549	EAIQFEVSIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYYLPW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDIIIWMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTIFLKYPQEKNNGPKVPVELRVNIWLGLSAVEKKFNSFAE GTFTVFAEMYENQALMFGKWGTSGLVGRHKFSDVTGKIKLKREF FLPPKGWEWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYP GGDWKPAEDTYTDANGDKAASPSELTCPPGWEWEDDAWSYDINR AVDEKGWEYGITIPPDHKPKSWVAAEKMYHTHRRRRLVRKRKKD LTQTASSTAGAMEELQDQEGWEYASLIGWKFHWKQRSSDTFRRR RWRRKMAPSETHGAAAIFKLEGALGADTTEDGDEKSLEKQKHSA TTVFGANTPIVSCNFDRDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTTEIIHSTLNPTWDQTIIFDEVEIYGEPQTVLQ NPPKVIMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAELILRGKDGSNLPILPPQRAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR DIVIEMEDTKPLLASKCLSSMSTALSKMASPATVHLTEKEEEIV DWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLT DFSDTFKLYRGKSDENEDPSVVGEFKGSFRIYPLPDDPSVPAPP RQFRELPDSVPQECTVRIYIVRGLELQPQDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGRMYELSCYLPQEKDLKISVYDYD TFTRDEKVGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILSEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYYLRVIIWNTKDVILDEKSITGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEGNFNWRFVFPFDYLPAEQLCIVAKKEHFW SILQTEFRIPPR\LIIQIW\DNDKFS\LDDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFKWVIIGLLFLLILL LFVAVLLYSLFNYLSMKIVKPNV
6021	4953	549	EAIQFEVSIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYYLPW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDIIIWMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTIFLKYPQEKNNGPKVPVELRVNIWLGLSAVEKKFNSFAE GTFTVFAEMYENQALMFGKWGTSGLVGRHKFSDVTGKIKLKREF FLPPKGWEWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYP GGDWKPAEDTYTDANGDKAASPSELTCPPGWEWEDDAWSYDINR AVDEKGWEYGITIPPDHKPKSWVAAEKMYHTHRRRRLVRKRKKD LTQTASSTAGAMEELQDQEGWEYASLIGWKFHWKQRSSDTFRRR RWRRKMAPSETHGAAAIFKLEGALGADTTEDGDEKSLEKQKHSA TTVFGANTPIVSCNFDRDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTTEIIHSTLNPTWDQTIIFDEVEIYGEPQTVLQ NPPKVIMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAELILRGKDGSNLPILPPQRAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR

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			DIVIEMEDTKPLLASKCLSSMSTALSKMASPATVHLTEKEEEIV DWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLT DFSDTFKLYRGKSDENEDPSVVGEFKGSFRIYPLPDDPSVPAPP RQFRELPDSVPQECTVRIYIVRGLELQPQDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGRMYELSCYLPQEKDLKISVYDYD TFTRDEKVGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILSEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYYLRVIIWNTKDVILDEKSITGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEGNFNWRFVFPFDYLPAEQLCIVAKKEHFW SIDQTEFRIPPR\LIIQIW\DNDKFS\LDDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFKWVIIGLLFLLILL LFVAVLLYSLPNYLSMKIVKPNV
6022	4953	549	EAIQFEVSIGNYGNKFDTTCKPLASTTQYSRAVFDGNYYYYLPW AHTKPVVTLTSYWEDISHRLDAVNTLLAMAERLQTNIEALKSGI QGKIPANQLAELWLKLIDEVIEDTRYTLPLTEGKANVTVLDTQI RKLRSRSLSQIHEAAVRMRSEATDVKSTLAEIEDWLDKLMQLTE EPQNSMPDIIIWMIRGEKRLAYARIPAHQVLYSTSGENASGKYC GKTQTIFLKYPQEKNNGPKVPVELRVNIWLGLSAVEKKFNSFAE GTFTVFAEMYENQALMFGKWGTSGLVGRHKFSDVTGKIKLKREF FLPPKGWEWEGEWIVDPERSLLTEADAGHTEFTDEVYQNESRYP GGDWKPAEDTYTDANGDKAASPSELTCPPGWEWEDDAWSYDINR AVDEKGWEYGITIPPDHKPKSWVAAEKMYHTHRRRRLVRKRKXD LTQTASSTAGAMEELCDQEGWEYASLIGWKFHWKQRSSDTFRRR RWRRKMAPSETHGAAAIFKLEGALGADTTEDGDEKSLEKQKHSA TTVFGANTPIVSCNFDRDYIYHLRCYVYQARNLLALDKDSFSDP YAHICFLHRSKTTEIIHSTLNPTWDQTIIFDEVEIYGEPQTVLQ NPPKVIMELFDNDQVGKDEFLGRSIFSPVVKLNSEMDITPKLLW HPVMNGDKACGDVLVTAELILRGKDGSNLPILPPQRAPNLYMVP QGIRPVVQLTAIEILAWGLRNMKNFQMASITSPSLVVECGGERV ESVVIKNLKKTPNFPSSVLFMKVFLPKEELYMPPLVIKVIDHRQ FGRKPVVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPCR DIVIEMEDTKPLLASKCLSSMSTALSKMASPATVHLTEKEEEIV DWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLT DFSDTFKLYRGKSDENEDPSVVGEFKGSFRIYPLPDDPSVPAPP RQFRELPDSVPQECTVRIYIVRGLELQPQDNNGLCDPYIKITLG KKVIE\DRDHYIPNTLNPVFGRMYELSCYLPQEKDLKISVYDYD TFTRDEKVGETIIDLENPF\LSRFG\SHCG\IPEEYCVSGVNTW RDSLR\PTQ\LLQNVARFKGFPQPILSEDGSRIRYGGRDYSLDE FEANKILHQHLGAPEERLALHILRTQGLVPEHVETRTLHSTFQP NIS\RYYLRVIIWNTKDVILDEKSITGEEMSDIYVKGWIPGNEE NKQKTDVHYRSLDGEGNFNWRFVFPFDYLPAEQLCIVAKKEHFW SIDQTEFRIPPR\LIIQIW\DNDKFS\LDDYLGFPRTLTCRHTI HFLQKSPGGNC/RGLDMIPDLKAMNPLKAKTASLFEQKSMKGWW PCYAEKDGARVMAGKVEMTLEILNEKEADERPAGKGRDEPNMNP KLDLPNRPETSFLWFTNPCKTMKFIVWRRFKWVIIGLLFLLILL LFVAVLLYSLPNYLSMKIVKPNV
6023	102	916	SQELGMFVELNNLLNTTPDRAEQGKLTLLCDAKTDGSFLVHHFL SFYLKANCKVCFVALIQSFSHYSIVGQKLGVSLTMARERGQLVF LEGL/IVCSGR\VFQAQKEPHPLQFLREANAGNLKPLFEFVREA LKPVDSGEARWTYPVLLVDDLSVLLSLGMGAVAVLDFIHYCRAT VCWELKGNMVVLVHDSGDAEDEENDILLNGLSHQSHLILRAEGL ATGFCRDVHGQLRILWRRPSQPAVHRDQSFTYQYKIQDKSVSFF AKGMSPAVL
6024	3	3260	FLSFLCYPRFRCLFCLQFAIPASRMEQLNELELLMEKSFWEEAE LPAELFQKKVVASFPRTVLSTGMDNRYLVLAVNTVQNKEGNCEK RLVITASQSLENKELCILRNDWCSVPVEPGDIIHLEGDCTSDTW IIDKDFGYLILYPDMLISGTSIASSIRCMRRAVLSETFRSSDPA TRQMLIGTVLHEVFQKAINNSFAPEKLQELAFQTIQEIRHLKEM

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			YRLNLSQDEIKQEVEDYLPSFCKWAGDFMHKNTSTDFPQMQLSL PSDNSKDNSTCNIEVVKPMDIEESIWSPRFGLKGKIDVTVGVKI HRGYKTKYKIMPLELKTGKESNSIEHRSQVVLYTLLSQERRADP EAGLLLYLKTGQMYPVPANHLDKRELLKLRNQMAFSLFHRISKS ATRQKTQLASLPQIIEEEKTCKYCSQIGNCALYSRAVEQQMDCS SVPIVMLPKIEEETQHLKQTHLEYFSLWCLMLTLESQSKDNKKN HQNIWLMPASEMEKSGSCIGNLIRMEHVKIVCDGQYLHNFQCKH GAIPVTNLMAGDRVIVSGEERSLFALSRGYVKEINMTTVTCLLD RNLSVLPESTLFRLDQEEKNCDIDTPLGNLSKLMENTFVSKKLR DLIIDFREPQFISYLSSVLPHDAKDTVACILKGLNKPQRQAMKK VLLSKDYTLIVGMPGTGKTTTICTLVRILYACGFSVLLTSYTHS AVDNILLKLAKFKIGFLRSR\QIQKVHPAIQQFTEHEICRSKSI KS\LALLEELYTSQLIDATTCMGINHPIFSRKIFDFCIVDEASQ ISQPICLGPLFFSRRFVLVGDHQQLPPLVLNREARALGMSESLF KRLEQNKSAVVQLTVQYRMNSKIMSLSNKLTYEGKLECGSDKVA NAVINLRHFKDVKLELEFYADYSDNPWLMGVFEPNNPVCFLNTD KVPAPEQVEKGGVSNVTEAKLIVFLTSIFVKAGCSPSDIGIIAP YRQQLKIINDLLARSIGMVEVNTVDKYQD\RDKSIVLVSFVRSN KDGTVGELLKDWRRINVAITRAKHKLILLGCVPSLNCYPPLEKL LNHLNSEKLIIDLPSREHESLCHILGDFQRE
6025	3977	89	GGFPAQSDHLPPVFPLRSDLLITMSTLYVSPHPDAFPSLRALIA ARYGEAGEGPGWGGAHPRICLQPPPTSRTSFPPPRLPALEQGPG GLWVWGATAVAQLLWPAGLGGPGGSRAAVLVQQWVSYADTELIP AACGATLPALGLRSSAQDPQAVLGALGRALSPLEEWLRLHTYLA GEAPTLADLAAVTALLLPFRYVLDPPARRIWNNVTRWFVTCVRQ PEFRAVLGEVVLYSGARPLSHQPGPEAPALPKTAAQLKKEAKKR EKLEKFQQKQKIQQQQPPPGEKKPKPEKREKRDPGVITYDLPTP PGEKKDVSGPMPDSYSPRYVEAAWYPWWEQQGFFKPEYGRPNVS AANPRGVFMMCIPPPNVTGSLHLGHALTNAIQDSLTRWHRMRGE TTLWNPGCDHAGIATQVVVEKKLWREQGLSRHQLGREAFLQEVW KWKEEKGDRIYHQLKKLGSSLDWDRACFTMDPKLSAAVTEAFVR LHEEGIIYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVPG YKEKVEFGVLVSFAYKVQGSDSDEEVVVATTRIETMLGDVAVAV HPKDTRYQHLKGKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKIT PAHDQNDYEVGQRHGLEAISIMDSRGALINVPPPFLGLPRFEAR KAVLVALKERGLFRGIEDNPMVVPLCNRSKDVVEPLLRPQWYVR CGEMAQAASAAVTRGDLRILPERHQRTWHAWMDNIRE\WCMFPG KLWWG\HR\IPAYFVTVSDPAVPPGEDPDGRYWVSGRNEAEARE KAAKEFGVSPDKISLQQDEDVLDTWFSSGLFPLSILGWPNQSED LSVFYPGTLLETGHDILFFWVARMVMLGLKLTGRLPFREVYLHA IVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLLNSNLDPS EVEKAKEGQKADFPAGIPECGTDALRFGLCAYMSQGRDINLDVN RILGYRHFCNKLWNATKFALRGLGKGFVPSPTSQPGGHESLVDR WIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLEC LKPVLNGVDQVAAECARQTLYTCLDVGLRLLSPFMPFVTEELFQ RLPRRMPQAPPSLCVTPYPEPSECSWKDPEAEAALELALSITRA VRP\LRADYNLHPESGPTCFLEVAD\EATGALASAVSGYVQGPG QAQVVVAVAEPWGLPAP\QGCAVALASDRCSI\HLQLQG\LLDP ARELG\KLQ\AKRVEAQ\RQAQ\RLR\ERRA\ASGNPVKVPL\E VQEADEAKLQQTEAELRKVDEAIALFQKML
6026	2674	514	GPITFLKKKAKMKDMPLRIHVLLGLAITTLVQAVDKKVDCPRLC TCEIRPWFTPRSIYMEASTVDCNDLGLLTFPARLPANTQILLLQ TNNIAKIEYSTDFPVNLTGLDLSQNNLSSVTNINGKKMPQLLSV YLEENKLTELPEKCLSELSNLQELYINHNLLSTISPGAFIGLHN LLRLHLNSNRLQMINSKWFDALPNLEILMIGENPIIRIKDMNFK PLINLRSLVIAGINLTEIPDNALVGLENLESISFYDNRLIKVPH VALQKVVNLKFLDLNKNPINRIRRGDFSNMLHLKELGINNMPEL ISIDSLAVDNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLML NSNALSALYHGTIESLPNLKEISIHSNPIRCDCVIRWMNMNKTN IRFMEPDSLFCVDPPEFQGQNVRQVHFRDMMEICLPLIAPESFP SNLNVEAGSYVSFHCRATA\EPQPEIYWITPSGQKLLPNT\LTD

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			KFYVHSEGTLDINGVTPKEGGLYTCIATNLVGADLKSVMIKVDG SFPQDNNGSLNIKIRDIQANSVLVSWKASSKILKSSVKWTAFVK TENSHAAQSARIPSDVKVYNLTHLNPSTEYKICIDIPTIYQKNR KKCVNVTTKGLHPDQKEYEKNNTTTLMACLGGLLGIIGVICLIS CLSPEMNCDGGHSYVRNYLQKPTFALGELYPPLINLWEAGKEKS TSLKVKATVIGLPTNMS
6027	5254	4148	GGRRAPGRPGRSIKDEEEETVFREVVSFSPDPLPVRYYDKDTTK PISFYLSSLEELLAWKPRLEDGFNVALEPLACRQPPLSSQRPRT LLCHDMMGGYLDDRFIQGSVVQTPYAFYHWQCIDVFVYFSHHTV TIPPVGWTNTAHRHGVCVLGTFITEWNEGGRLCEAFLAGDERSY QAVADRLVQIT\RFFRFDGWLINIENSLSLAAVGNMPPFLRYLT TQLHRQVPGGLVLWYDSVVQSGQLKWQDELNQHNRVFFDSCDGF FTNYNWREEHLERMLGQAGERRADVYVGVDVFARGNVVGGRFDT DKVGGGFRPRASGPVPPLGPHFLMDLPFPSAPQRNDSSCSSQSG DPVALRNRCPAPAKLCPH
6028	120	3432	NCLLLQAKGFHGEIEDLQQWLTDTERHLLASKPLGGLPETAKEQ LNVHMEVCAAFEAKEETYKSLMQKGQQMLARCPKSAETNIDQDI NNLKEKWESVETKLNER\KT\KLEEALNLA\MEFHNSL\QDFIN WLTQAEQTLNVASRPSLILDTVLFQIDEHKVFANEVNSHREQII ELDKTGTHLKYFSQKQDVVLIKNLLISVQSRWEKVVQRLVERGR SLDDARKRAKQFHEAWSKLMEWLEESEKSLDSELEIANDPDKIK TQLAQHKEFQKSLGAKHSVYDTTNRTGRSLKEXTSLADDNLKLD DMLSELRDKWDTICGKSVERQNKLEEA\LLFSGQFTDALQALID WLYRVEPQLAEDQPVHGDIDLVMNLIDNHKAFQKELGKRTSSVQ ALKRSARELIEGSRDDSSWVKVQMQELSTRWETVCALSISKQTR LEAALRQAEEFHSVVHALLEWLAEAEQTLRFHGVLPDDEDALRT LIDQHKEFMKKLEEKRAELNKATTMGDTVLAICHPDSITTIKHW ITIIRARFEEVLAWAKQHQQRLASALAGLIAKQELLEALLAWLQ WAETTLTDKDKEVIPQEIEEVKALIAEHQTFMEEMTRKQPDVDK VTKTYKRRAADPSSLQSHIPVLDKGRAGRKRFPASSLYPSGSQT QIETKNPRVNLLVSKWQQVWLLALERRRKLNDALDRLEELREFA NFDFDIWRKKYMRWMNHKKSRVMDFFRRIDKDQDGKITRQEFID GILSSKFPTSRLEMSAVADIFDRDGDGYIDYYEFVAALHPNKDA YKPITDADKIEDEVTRQVAKCKCAKRFQVEQIGDNKYRFFLGNQ FGDSQQLRLVRILRSTVMVRVGGGWMALDEFLVKNDPCRAKGRT NMELREKFILADGASQGMAAFRPRGRRSRPSSRGASPNRSTSVS SQAAQAASPQVPATTTPKILHPLTRNYGKPWLTNSKMSTPCKAA ECSDFPVPSAEGTPIQGSKLRLPGYLSGKGFHSGEDSGLITTAA ARVRTQFADSKKTPSRPGSRAGSKAGSRASSRRGSDASDFDISE IQSVCSDVETVPQTHRPTPRAGSRPSTAKPSKIPTPQRKSPASK LDKSSKR
6029	1	3533	IMPCGSSRLLRGCWTHPNEPVSDLSYFDCIESVMENSKVLGESM AGISQNAKTGDLPAFGECVGIASKALCGLTEAAAQAAYLVGIFD PNSQAGHQGLVDPIQFARANQAIQMACQNLVDFGSSPSQVLSAA TIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANL VKTIKALDGDFSEDNRNKCRIATAPLIEAVENLTAFASNPEFVS IPAQISSEGSQAQEPILVSAKPMLESSSYLIRTARSLAINPKDP PTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRC IRDIEQASLAAVSQSLATRDDISVEALQEQLTSVVQEIGHLIDP IATAARGEAAQLGHKGTQLASYFEPLILAAVGVASKILDHQQQM TVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEAAQLMK EAVDDIMVTLNEAASEVGLVGGMVDAIAEAMSKLDEGTPPEPKG TFVDYQTTVVKYSKAIAVTAQEMMTKSVTNPEELGGLASQMTSD YGHLAFQGGQMAAATAEPEEIGFQIRTRVQDLGHGCIFLVQKAG\ ALQVCPTDSYTKRELIECARAVTEKVSLVLSALQAGNKGTQACI TAATAVSGIIADLDTTIMFATAGTLNAENSETFADHRENILKTA KALVEDTKLLVSGAASTPDKLAQAAQSSAATITQLAEVVKLGAA SLGSDDPETQVVLINAIKDVAKALSDLISATKGAASKPVDDPSM YQLKGAAKVMVTNVTSLLKTVKAVEDEATRGTRALEATIECIKQ ELTVFQSKDVPEKTSSPEESIRMTKGITMATAKAVAAGNSCRQE DVIATANLSRKAVSDMLTACKQASFHPDVSDEVRTRALRFGTEC

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			TLGYLDLLEHVLVILQKPTPELKQQLAAFSKRVAGAVTELIQAA EAMKGTEWVDPEDPTVIAETELLGAAASIEAAAKKLEQLKPRAK PKQADETLDFEEQILEAAKSIAAATSALVKSASAAQRELVAQGK VGSIPANAADDGQWSQGLISAARMVAAATSSLCEAANASVQGHA SEEKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAAGNAV KRASDNLVRAAQKAAFGKADDDDVVVKTKFVGGIAQIIAAQEEM LKKERELEEARKKLAQIRQQQYKFLPTELREDEG
6030	3	1777	FPGRGSPALQLEVLICLGLMGLERALNVLAPIFYRNIVNLLTEN APWNSLAWTVTSYVFLKFLQGGGTGSTGFVSNLRTFLWIRVQQF TSRRVELLIFSHLHELSLRWHLGRRTGEVLRIADRGTSSVTGLL SYLVFNVIPTLADIIIGIIYFSMFFNAWFGLIVFLCMSLYLTLT IVVTEWRTKFRRAMNTQENATRARAVDSLLNFETVKYYNAESYE VERYREAIIKYQGLEWKSSASLVLLNQTQNLVIGLGLLAGSLLC AYFVTEQKLQVGDYVLFGTYIIQLYMPLNWFGTYYRMIQTNFID MENMFDLLKK\ETEVKDLPGAGPFRFQKGRIEFENVHFSYADGR ETLQDVSPTVMPGQTLALVGPSGAGKSTILRLLFRFYDISSGCI RIDGQDISQVTQALFRFSHWELCPKDTVLFNDTIADNIRYGRVT AGNDEVEAAAQAAGIHDAIMAFPEGYRTQVGERGLKLSGGEKQR VAIARTILKAPGIILLDEATSALDTSNERAIQASLAKVCANRTT IVVAHRLSTVVNADQILVIKDGCIVERGRHEALLSRGGVYADMW QLQQGQEETSEDTKPQTMER
6031	160	1694	LRMSENLDKSNVNEAGKSKSNDSEEGLEDAVEGADEALQKAIKS DSSSPQRVQRPHSSPPRFVTVEELLETARGVTNMALAHEIVVNG DFQIKPVELPENSLKKRVKEIVHKAFWDCLSVQLSEDPPAYDHA IKLVGEIKETLLSFLLPGHTRLRNQITEVLDLDLIKQEAENGAL DISKLAEFIIGMMGTLCAPARDEEVKKLKDIKEIVPLFREIFSV LDLMKVDMANFAISSIRPHLMQQSVEYERKKFQEILERQPNSLD FVTQWLEEASEDLMTQKYKHALPVGGMAAGSGDMPRLSPVAVQN YAYLKLLKWDHLQRPFPETVLMDQSRFHELQLQ\REQLTILGAV LLVTFSMAAPGISSQADFAEKLKMIVKILLTDMHLPSFHLKDVL TTIGEKVCLEVSSCLSLCGSSPFTTDKETVLKGQIQAVASPDDP IRRIMESRILTFLETYLASGHQKPLPTVPGGLSPVQRELEEVAI KFARLVNYNKMVFCPYYDAILSKILVRS
6032	39	2415	AARLCRAQPTKSAWMIRDLSKMYPQTRHPAPHQPAQPFKFTISE SCDRIKEEFQFLQAQYHSLKLECEKLASEKTEMQRHYVMYYEMS YGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQQVVQAVERAK QVTMAELNAIIGQQQLQAQHLSHGHGLPVPLTPHPSGLQPPAIP PIGSSAGLLALSSSALGGQSHLPIKDEKKHHDNDIIQRDRDSIKSS SVSPSASFRGAEKHRNSADYSSESKKQKTEEKEIAARYDSDGEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPRTDAPTPGS NSTPGLRPVPGKPPGVDPLASSLRTPMAVPCPYPTPFGIVPHAG MNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAAAYGRSPVVGFD PHHHMRVPAIPPNLTGIPGGKPAYSFHVSADGQMQPVPFPPDAL IGPGIPRHARQINTLNHGEVVCAVTISNPTRHVYTGGKGCVKVW DISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTL SIWDLAAPTPRIKAELTSSAPACYALAISPDSKVCFSCCSDGNI AVWDLHNQTLVRQFQGHTDGASCIDISNDGTKLWTGGLDNTVRS W\DLREGRQLQQHD/FFTSPVFSLGYCP\TEEWLAVGMENSN\V EVLHVTKPDKYQLHLHESCVLSLKFAHCGKWF\VSTGKDNLLNA W\RTPYG\ASIF\QSKESSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYEVIY
6033	39	2415	AARLCRAQPTKSAWMIRDLSKMYPQTRHPAPHQPAQPFKFTISE SCDRIKEEFQFLQAQYHSLKLECEKLASEKTEMQRHYVMYYEMS YGLNIEMHKQAEIVKRLNAICAQVIPFLSQEHQQQVVQAVERAK QVTMAELNAIIGQQQLQAQHLSHGHGLPVPLTPHPSGLQPPAIP PIGSSAGLLALSSSALGGQSHLPIKDEKKHHDNDHQRDRDSIKSS SVSPSASFRGAEKHRNSADYSSESKKQKTEEKEIAARYDSDGEK SDDNLVVDVSNEDPSSPRGSPAHSPRENGLDKTRLLKKDAPISP ASIASSSSTPSSKSKELSLNEKSTTPVSKSNTPTPRTDAPTPGS NSTPGLRPVPGKPPGVDPLASSLRTPMAVPCPYPTPFGIVPHAG

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			MNGELTSPGAAYAGLHNISPQMSAAAAAAAAAAAAYGRSPVVGFD PHHIMRVPAIPPNLTGIPGGKPAYSFHVSADGQMQPVPFPPDAL IGPGIPRHARQINTLNHGEVVCAVTISNPTRHVYTGGKGCVKVW DISHPGNKSPVSQLDCLNRDNYIRSCRLLPDGRTLIVGGEASTL SIWDLAAPTPRIKAELTSSAPACYALAISPDSKVCFSCCSDGNI AVWDLHNQTLVRQFQGHTDGASCIDISNDGTKLWTGGLDNTVRS W\DLREGRQLQQHD/FFTSPVFSLGYCP\TEEWLAVGMENSN\V EVLHVTKPDKYQLHLHESCVLSLKFAHCGKWF\VSTGKDNLLNA W\RTFYG\ASIF\QSKESSS\VLSCDI\SVDDKYIVTGS\GDK\ RATVYEVIY
6034	2683	714	ESGRRRLKRRRSPCPGTAGGGPGETNPGPGACPRGPREEAAAAM EIAPQEAPPVPGADGDIEEAPAEAGSPSPASPPADGRLKAAAKR VTFPSDEDIVSGAVEPKDPWRHAQNVTVDEVIGAYKQACQKLNC RQIPKLLRQLQEFTDLGHRLDCLDLKGEKLDYKTCEALEEVFKR LQFKVVDLEQTNLDEDGASALFDMIEYYESATHLNISFNKHIGT RGWQAAAHMMRKTSCLQYL\DARNTPLLDHSAPFVARALRIRSS LAVLHLENASLSGRPLMLLATALKMNMNLRELYL\ADNKLNGLQ DSAQLGNLLKFNCSLQILDLRNNHVLDSGLAYICEGLKEQRKGL VTL\VLWNNQLTHTGMAFLGMTLPHTQSLETLNLGHNPIGNEGV RHLKNGLISNRSVLRLGLASTKLTCEGAVAVAEFIAESPRLLRL DLRENEIKTGGLMALSLALKVNHSLLRLDLDREPKKEAVKSFIE TQKALLAEIQNGCKRNLVLAREREEKEQPPQLSASMPETTATEP QPDDEPAAGVQNGAPSPAPSPDSDSDSDSDGEEEEEEEGERDET PSGAIDTRDTGSSEPQPPPEPPRSGPPLPNGLKPEFALALPPEP PPGPEVKGGSCGLEHELSCSKNEKELEEELLLEASQESGQETL
6035	19	404	SVTYLGIILHKNTGALPADPVQLISQTPTPSTKQQLLSFLGMVG YFYLWIPGFAILTKPLCKLTKENLADAIDPKSFSHSSFRSLKTA LENASTLALPDSSQPF\SLHTAEVQGCVVEILTQGLGPLPV
6036	1745	356	LPDVEKLGRRRGRKMDSVEKGAATSVSNPRGRPSRGRPPKLQRN SRGGQGRGVEKPPHLAALILARGGSKGIPLKNIKHLAGVPLIGW VLRAALDSGAFQSVWVSTDHDEIENVAKQFGAQVHRRSSEVSKD SSTSLDAIIEFLNYHNEVDIVGNIQATSPCLHPTDLQKVAEMIR EEGYDSVFSVVRRHQFRWSEIQKGVREVTEPLNLNPAKRPRRQD WDGELYENGSFYFAKRHLIEMGYLQGGKMAYYEMRAEHSVDIDV DIDWPIAEQRVLRYGYFGKEKLKEIKLLVCNIDGCLTNGHIYVS GDQKEIISYDVKDAIGISLLKKSGIEVRLISERACSKQTLSSLK LDCKMEVSVSDKLAVVDEWRKEMGLCWKEVAYLGNEVSDEECLK RVGLSGAPADACSTAQKAVGYICKCNGGRGA\IREFAEHIC\LL MEKGLINFMPKNRNLAVNIGEKK
6037	2936	1919	WTSWWMSSVLTILLFSLQGNKMLNYSAPSAGGYLLPRKPVGTPA GGGFPRRHSVTLPSSKFRQNQLLSSLKGEPAPALSSRDSRFRDR SFSEGGERLLPTQKQPGGGQVNSSRYKT\ELCRPFEENGACKYG DKCQFAHGIHELRSLTRHPKYXTELCRTFHTIGFCPYGPRCHFI HNAEERRALAGARDLSADRPRLQHSFSFAGFPSAAATAAATGLL DSPTSITPPPILSADDLLGSPTLPDGTNNPF\AFSSQELASLFA PSMGLPGGGSPTTFLFRPMSESPHMFDSPPSPQDSLSDQEGYLS SSSSSHSGSDSPTLDNSRRLPIFSRLSISDD
6038	1450	426	SSALQEFGTRNHTFGVPLPHRRKQIISCNICQLRFNSDSQAAAH YKGTKHAKKLKALEAMKNKQKSVTAKDSAKTTFTSITTNTINTS SDKTDGTAGTPAISTTTTVEIRKSSVMTTEITSKVEKSPTTATG NSSCPSTETEEEKAKRLL\YCSLCKVAVNSASQLEAHNSGTKHK TMLEARNGSGTIKAFPRAGVKGKGPVNKGNTGLQNKTFHCEICD VHVNSETQLKQHISSRRHKDRAAGKPPKPKYSPYNKLQKTAHPL GVKLVFSKEPSKPLAPRILPNPLAAAAAAAAVAVSSPFSLRTAP AATLFQTSALPPALLRPAPGPIRTAHTPVLFAPY
6039	4073	1000	LDEYEARLTLANLDDFEEDNEDDDENRVNQEEKAAKITELINKL NFLDEAEKDLATVNSNPFDDPDAAELNPFGDPDSEEPITETASP RKTEDSFYNNSYNPFKEVQTPQYLNPFDEPEAFVTIKDSPPQST KKKNIRPVDMSKYLYADSSKTEEEELDESNPFYEPKSTPPPNNL VNPVQBLETERRVKRKAPAPPVLSPKTGVLNENTVSAGKDLSTS

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			PKPSPIPSPVLGRKPNASQSLLVWCKEVTKNYRGVKITNFTTSW RNGLSFCAILHHFRPDLIDYKSLNPQDIKENNKKAYDGFASIGI SRLLEPSDMVLLAIPDKLTVMTYLYQIRAHFSGQELNVVQIEEN SSKSTYKVGNYETDTNSSVDQEKFYAELSDLKREPELQQPISGA VDFLSQDDSVFVNDSGVGESESEHQTPDDHLSPSTASPYCRRTK SDTEPQKSQQSSGRTSGSDDPGICSNTDSTQAVVLLGKKRLLKA ETLELSDLYVSDKKKDMSPPFICEETDEQKLQTLDIGSNLEKEK LENSRSLECRSDPESPIKKTSLSPTSKLGYSYSRDLDLAKKKHA SLRQTESDPDADRTTLNHADHSSKIVQHRLLSRQEELKERARVL LEQARRDAALKAGNKHNTNTAAPFCNRQLSDQQDEERRRQLRER ARQLIAEEARSGGKMSELPSYGERAAEKLKERSKASGDENDNIEI DTNEEIPEGFVVGGGDELTNLENDLDTPEQNSKLVDLKLKKLLE VQPQVANSPSSAAQKAVTESSEQDMKSGTEDLRTERLQKTTERF RNPVVFSKDSTVRKTQLQSFSQYIENRPEMKRQRSIQEDTKKGN EEKAAITETQRKPSEDEVLNKGFKDS\SQYVVGELAALENEQKQ IDTRAALVEKRLRYLMDTGRNTEEEEAMMQEWFMLVNKKNALIR RMNQLSLLEKEHDLERRYELLNRELRAMLAIEDWQKTEAQKRRE QLLLLDELVALVNKRDALVRDLDAQEKQAEEEDEHLERTLEQNKG KMAKKEEKCVLQ
6040	475	1052	PTALMTAPSCAFPVQFRQPSVSGLSQITKSLYISNGVAANNKLM LSSNQITMVINVSVEVVNTLYEDIQYMQVPVADSPNSRLCDFFD PIADHIHSVEMKQGR\TLLHCAAGVSRSAALCLAYLMKYHAMSL LDAHTWTKSCRPIIRPNSGFWEQLIHYEFQLFGKNTVHMVSSPV GMIPDIYEKEVRLMIPL
6041	2	3886	TEKDEKTAHNLENVLIHFWERLSEICVAKISEPEADVESVLGVS NLLQVLQKPKGSLKSSKKKNGKVRFADEILESNKENEKCVSSEG EKTECWELTTEPSLTHNSSGLLSPLRKKPLEDLVCKLADISINY VNERKSEQHLRFLSTLLDSFSSSRVFKMLLGDEKQSIVQAKPLE IAKLVQKNPAVQFLYQKLIGWLNEDQRKDFGFLVDILYSALRCC DNDMERKKVLDDLTKVDLKWNSLLKIIEKACPSSDKHALVTPWL KGDILGEKLVNLADCLCNEDLESRVSSESHFSERWTLLSLVLSQ HVKNDYLIGDVYVERIIVRLHETLFKTKKLSEAESSDSSVSFIC DVAYNYFSSAKGCLLMPSSEDLLLTLFQLCAQSKEKTHLPDFLI CKLKNTWLSGVNLLVHQTDSSYKESTFLHLSALWLKNQVQASSL DINSLQVLLSAVDDLLNTLLESEDSYLMGVYIGSVMPNDSEWEK MRQSLPMQWLHRPLLEGRLSLNYECFKTDFKEQDIKTLPSHLCT SALLSKMVLIALRKETVLENNELEKIIAELLYSLQWCEELDNPP IFLIGFCEILQKMNITYDNLRVLGNMSGLLQLLFNRSREHGTLW SLIIAKLILSRSISSDEVKPHYKRKESFFPLTEGNLHTIQSLCP FLSKEEKKEFSAQCIPALLGWTKKDLCSTNGGFGHLAIFNSCLQ TKSIDDGELLHGILKIIISWKKEHEDIFLFSCNLSEASPEVLGV NIEIIRFLSLFLKYCSSPLAESEWDFIMCSMLAWLETTSENQAL YSIPLVQLFACVSCDLACDLSAFFDSTTLDTIGNLPVNLISEWK EFFSQGIHSLLLPILVTVTGENKDVSETSFQNAMLKPMCETLTY ISKEQLLSHKLPARLVADQKTNLPEYLQTLLNTLAPLLLFRARP VQIAVYHMLYKLMPELPQYDQDNLKSYGDEEEEPALSPPAALMS LLSIQEDLLENVLGCIPVGQIVTIKPLSEDFCYVLGYLLTWKLI LTFFKAASSQLRALYSMYLRKTKSLNKLLYHLFRLMPENPTYAE TAVEVPNKDPKTFFTEELQLSIRETTMLPYHIPHLACSVYHMTL KDLPAMVRLWWNSSEKRVFNIVDRFTSKYVSSVLSFQEISSVQT STQLFNGMTVKARATTREVMATYTIEDIVIELIIQLPSNYPLGS IIVESGKRVGVAVQQWRNWMLQLSTYLTHQNGSIMEGLALWKNN VDKRFEGVEDCMICFSVIHGFNYSLPKKACRTCKKKFHSA\CLY KWFTSSNKSTCSLCRETFF
6042	1306	253	MAELAPASPSDIKASVSNGDTTLLCSRRQSCGMNEVRQVSLTYP GSPAPSHSLPLQPRSGGSLCPSRAW/PDPHQLFDDTSSAQSRGY GAQRAPGGLSYPAASPTPHAAFLADPVSNMAMAYGSSLAAQGKE LVDKNIDRFIPITKLKYYFAVDTMYVGRKLGLLFFPYLHQDWEV QYQQDTPVAPRFDVNAPDLYIPAMAFITYVLVAGLALGTQDRFS PDLLGLQASSALAWLTLEVLAILLSLYLVTVNTDLTTIDLVAFL GYKYVGMIGGVLMGLLFGKIGYYLVLGWCCVAIFVFMIRTLRLK

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			ILADAAAEGVPVRGARNQLRMYLTMAVAAAQPMLMYWLTFHLVR
6043	403	599	LCLFFPFPCATPVLPLPSLISAL/CLSHLSVSSWFCPCQPPLPC PLPPLQNKTAKGSLSTEQSERG
6044	793	412	KLEMWNFTLISKVKISREVTMIASKFGIGQQVRHSLLGYLGVVV DIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYL AEAQLSSELQDEHP\EQPSMDELAQTIRKQLQAPRLRN
6045	155	2299	SPLPQVAAMNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPG AHSPGATPGPGTATAERSSGVAPAASPAAPSPGSSGGGGFFSSL SNAVKQTTAAAAATFSEQVGGGSGGAGRGGAASRVLLVIDEPHT DWAKYFKGKKIHGEIDIKVEQAEFSDLNLVAHANGGFSVDMEVL RNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPS VNSLHSVYNFCDKPWVFAQMVRLHKKLGTEEFPLIDQTFYPNHK EMLSS\TTYPVVVKMGHGTLWGWGKVKVDNQHDFQDIASVVALT KTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKTNTGSA MLEQIAMSDRYKLWVDTCSEIFGGLDICAVEALHGKDGRDHIIE VVGSSMPLIGDHQDEDKQLIVELVVNKMAQALPRQRQRDASPGR GSHGQTPSPGALPLGRQTSQQPAGPPAQQRPPPQGGPPQPGPGP QRQGPPPLQQRPPPQGGQQHLSGLGPPAGSPLPQRLPSPTSAPQQP ASQAAPPTQGQGRQSRPVAGGPGAPPAARPPASPSPQRQAGPPQ ATRQTSVSGPAPPKASGAPPGGQQRQGPPQKPPGPGPTRQASQ AGPVPRTGPPTTQQPRPSGPGPGAGRPKPQLAQKPSQDVPPPATA AAGGPPHPQLNKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRS LRKSFASLFSD
6046	212	1075	EGLTGPCERVPFLLGRGPPHGATRAGHRRAVRWAGPESLPPLPR SLIMDSPRAGTHQGPLDAETEVGADRCTSTAYQEQRPQVEQVGK QAPLSPGLPAMGGPGPGPCEDPAGAGGAGAGGSEPLVTVTVQCA FTVALRARRGADLSSLRALLGQALPHQ\AQLGQLSYLAPGEDGH WVPIPEEESLQRAWQDAAACPRGLQLQCRGAGGRPVLYQVVAQH SYSAQGPEDLGFRQGDTVDVLCEVDQAWLEGHCDGRIGIFPKCF VVPAGPRMSGAPGRLPRSQQGDQP
6047	49	1405	PVLVTSLRMREADTLRPPQLMEVSADIISTVEFNHTGELLATGD KGGRVVIFQREPESKNAPHSQGEYDVYSTFQSHEPEFDYLKSLE IEEKINKIKWLPQQNAAHSLLSTNDKTIKLWKITERDKRPEGYN LKDEEGKLKDLSTVTSLQVPVLKPMDLMVEVSPRRIFANGHTYH INSISVNSDCETYMSADDLRINLWHLAITDRSFTP\NIVDIKPA NMEDLTEVITASEFHPHHCNLFVYSSSKGSLRLCDMRAAALCDK HSKLFEEPEDPSNRSFFSEIIS\SVSDVKFSHSDRYMLTR\DYL TVKVWDL\NMEARPIETYQVHDYLRSKLCSLYENDCIFDKFECA WNGSDSVIMTGA\YNNFFRMFDRNTKRDVTL\EASRESSKPRAV LKPRRVCVGGKRRRDDISVDSLDFTKKILHTAWHPAENIIAIAA TNNLYIFQDKVNSDMH
6048	1	3194	GIRTPKFCDSPTSDLEMRNGRGRGKRMRPNSNTPVNETATASDS KGTSNSSKTRAGANSKGRRGSQNSSEHRPPASSTSEDVKASPSS ANKRKNKPLSDMELNSSSEDSKGSKRVRTNSMGSATGPLPGTKV EPTVLDRNCPSPVLIDCPHPNCNKKYKHINGLKYHQAHAHTDDD SKPEADGDSEYGEEPILHADLGSCNG\ASVSQK\GSLSPARSAT PKVRLVEPHSPSPSSKFSTKGLCKKKLSGEGDTDLGALSNDGSD DGPSVMDETSNDAFDSLERKCMBKEKCKKPSSLKPEKIPSKSLK SARPI/APLAIPPQQIYTFQTATFTAASPGSSSGLTATVAQAMP NSPQLKPIQPKPTVMGEPFTVNPALTPAKDKKKKDKKKKESSKE LESPLTPGKVCRAEEGKSPFRESSGNGMKMEGLLNGSSDPHQSR LASIKAEADKIYSFTDNAPSPSIGGSSRLENTTPTQPLTPLHVV TQNGAEASSVKTNSPAYSDISDAGEDGEGKVDSVKSKDAEQLVK EGAKKTLFPPQPQSKDSPYYQGFESYYSPSYAQSSPGALNPSSQ AGVESQALKTKRDEEPESIEGKVKNDICEEKKPELSSSSQQPSV IQQRPNMYMQSLYYNQYAYVPPYGYSDQSYHTHLLSTNTAYRQQ YEEQQKRQSLEQQQRGVDKKAEMGLKEREAALKEEWKQKPSIPP TLTKAPSLTDLVKSGPGKAKEPGADPAKSVIIPKLDDSSKLPGQ APEGLKVKLSDASHLSKEASEAKTGAECGRQAEMDPILWYRQEA EPRMWTYVYPAKYSDIKSEDERWKEERDRKLKEERSRSKDSVPK

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.			EDGKESTSSDCKLPTSEESRLGSKEPRPSVHVPVSSPLTQHQSY IPYMHGYSYSQSYDPNHPSYRSMPAVMMQNYPGSYLPSSYSFSP YGSKVSGGEDADKARASPSVTCKSSSESKALDILQQHASHYKSK SPTISDKTSQERDRGGCGVVGGGGSCSSVGGASGGERSVDRPRT SPSQRLMSTHHHHHHLGYSLLPAQYNLPYAAGLSSTAIVASQQG STPSLYPPPRR
6049	215	1089	AMTGVFDRRVPSIRSGDFQAPFQTSAAMHHPSQESPTLPESSAT DSDYYSPTGGAPHGYCSPTSASYG\KALNPYQYQYHGVNGSAGS YPAKAYADYSYASSYHQYGGAYNRVPSATNQPEKEVTEPEVRMV NGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASL GLTQTQVKIWFQNKRSKIKKIMKNGEMPPEHSPSSSDPMACNSP QSPAVWEPQGSSRSLSHHPHAHPPTSNQSPASSYLENSASWYTS AASSINSHLPPPGSLQHPLALASGTLY
6050	566	1718	KGLERTCCAMEESDSEKTTEKENLGPRMDPPLGEPG\GSLGWVL PNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILD RIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFLGNLVLNLW DCGGQDTFMENYFTSQRDNIFRNVEVLIYVFDVESRELEKDMHY YQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLR RLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQQLEMNLRN FAEIIEADEVLLFERATFLVISHYQCKEQRDAHRFEKISNIIKQ FKLSCSKLAASFQSMEVRNSNFAAFIDIFTSNTYVMVVMSDPSI PSAATLINIRNARKHFEKLERVDGPKQCLLMR
6051	566	1718	KGLERTCCAMEESDSEKTTEKENLGPRMDPPLGEPG\GSLGWVL PNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILD RIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFLGNLVLNLW DCGGQDTFMENYFTSQRDNIFRNVEVLIYVFDVESRELEKDMHY YQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLR RLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQQLEMNLRN FAEIIEADEVLLFERATFLVISHYQCKEQRDAHRFEKISNIIKQ FKLSCSKLAASFQSMEVRNSNFAAFIDIFTSNTYVMVVMSDPSI PSAATLINIRNARKHFEKLERVDGPKQCLLMR
6052	566	1718	KGLERTCCAMEESDSEKTTEKENLGPRMDPPLGEPG\GSLGWVL PNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATILD RIHSLQINSSLSTYSLVDSVGNTKTFDVEHSHVRFLGNLVLNLW DCGGQDTFMENYFTSQRDNIFRNVEVLIYVFDVESRELEKDMHY YQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLR RLSRPLECSCFRTSIWDETLYKAWSSIVYQLIPNVQQLEMNLRN FAEIIEADEVLLFERATFLVISHYQCKEQRDAHRFEKISNIIKQ FKLSCSKLAASFQSMEVRNSNFAAFIDIFTSNTYVMVVMSDPSI PSAATLINIRNARKHFEKLERVDGPKQCLLMR
6053	201	1704	KGTEMNKSRWQSRRRHGRRSHQQNPWFRLRDSEDRSDSRAAQPA HDSGHGDDESPSTSSGTAGTSSVPELPGFYFDPEKKRYFRLLPG HNNCNPLTKESIRQKEMESKRLRLLQEEDRRKKIARMGFNASSM LRKSQLGFLNVTNYCHLAHELRLSCMERKKVQIRSMDPSALASD RFNLILADTNSDRLFTVNDVTVGGSKYGIINLQSLKTPTLKVFM HENLYFTNRKV\NSVCWASLNHLDSHILLCLMGLAETPGCATLL PASLFVNSHPAGIDRPG\MLCSFRIPGAWSCAWSLNIQANNCFS TGLSRRVLLTNVVTGHRQSFGTNSDVLAQQFALMAPLLFNGCRS GEIFAIDLRCGNQGKGWKATRLFHDSAVTSVRILQDEQYLMASD MAGKIKLWDLRTTKCVRQYEGHVNEYAYLPLHVHEEEGILVAVG QDCYTRIWSLHDARLLRTIPSPYPASKADIPSVAFSSRLGGSRG APGLLMAVGQDLYCSYS
6054	1	1054	PPIARLQEFGTSRRHMAAPSGVHLLVRRGSHRIFSSPLNHIYLH KQSSSQQRRNFFFRRQRDISHSIVLPAAVSSAHPVPKHIKKPDY VTTGIVPDWGDSIEVKNEDQIQGLHQACQLARHVLLLAGKSLKV DMTTEEIDALVHREIISHNAYPSPLGYGGFPKSVCTSVNNVLCH GIPDSRPLQDGDIINIDVTVYYNGYHGDTSETFLVGNVDECGKK LVEVARRCRDEAIAACRAGAPFSVIGNTISHITHQNGFQVCPHF VGHGIGSYFHGHPEIWHHANDSDLPMEEGMAFTIEPIITEGSPE FKVLEDAWTVVSLD/TSKVSAQFEHTVLITSRGAQILTKLPHEA

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6055	421	2364	PPYFLLSFLAWWLYGQSDRTETDISQSAGPPPGTLQCSALHHDP GCANCSRFCRDCSPPACQCHTIIVFPGNALNGVQPPELSRTLALI SSREPPRKKKKSQTETGKERERTSFLTQGGKRFELQHGLAGICM TLLITGDSIVSAEAVWDHVTMANRELAFKAGDVIKVLDASNKDW WWGQIDDEEGWFPASFVRLWVNHEDEVEEGPSDVQNGHLDPNSD CLCLGRPLQNRDQMRANVINEIMSTERHYIKHLKDICEGYLKQC RKRRDMFSDEQLKVIFGNIEDIYRFQMGFVRDLEKQYNNDDPHL SEIGPCFLEHQDGFWIYSEYCNNHLDACMELSKLMKDSRYQHFF EACRLLQQMIDIA\IDGFLLTPVQKICKYPLQLAELLKYTAQDH SDYRYVAAALAVMRNVTQQINERKRRLENIDKIAQWQASVLDWE GEDILDRSSELIYTGEMAWIYQP\YGRNQQRVFFLFDHQMVLCK KDLIRRDILYYKGRIDMDKYEVVDIEDGRDDDFNVSMKNAFKLH NKETEEIHLFFAKKLEEKIRWLRAFREERKMVQEDEKIGFEISE NQKRQAAMTVRKVPKQKGVNSARSVPPSYPPPQDPLNHGQYLVP \DGIAQSQVFEFTEPKRSQSPFWQNFSRLTPFKK
6056	43	3358	SGGRGPVRVRSEQLSFSAEQVSQISQISLGRRPLSSLPPPPSRA LAPTRAPDTALTIMEVAEVESPLNPSCKIMTFRPSMEEFREFNK YLAYMESKGAHRAGLAKVIPPKEWKPRQCYDDIDNLLIPAPIQQ MVTGQSGLFTQYNIQKKAMTVKEFRQLANSGKYCTPRYLDYEDL ERKYWKNLTFVAPIYGADINGSIYDEGVDEWNIARLNTVLDVVE EECGISIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYLHFGBP KSWYAIPPEHGKRLERLAQGFFPSSSQGCDAFLRHKMTLISPSV LKKYGIPFDKITQEAGEFMITFPYGYHAGFNHGFNCAESTNFAT VRWIDYGKVAKLCTCRKDMVKISMDIFVRKFQPDRYQLWKQGKD IYTIDHTKPTPASTPEVKAWLQRRRKVRKASRSFQCARSTSKRP KADEEEEVSDEVDGAEVPNPDSVTDDLKVSEKSEAAVKLRNTEA SSEEBESSASRMQVEQNLSDHIKLSGNSCLSTSVTEDIKTEDDKA YAYRSVPSISSEADDSIPLSTGYEKPEKSDPSELSWPKSPESCS SVAESNGVLTEGEESDVESHGNGLEPGEIPAVPSGERNSFKVPS IAEGENKTSKSWRHPLSRPPARSPMTLVKQQAPSDEELPBVLSI BEEVEETESWAKPLIHLWQTKPPNFAAEQEYNATVARMKPHCAI CTLLMPYHKPDSSNEENDARWETKLDEVVTSEGKTKPLIPEMCF IYSEENIEYSPPNAFLEEDGTSLLISCAKCCVRVHASCYGIPSH EICDGWLCARCKRNAWTAECCLCNLRGGALKQTKNNKWAHVMCA VAVPEVRFTNVPERTQIDVGRIPLQRLKLKCIFCRHRVKRVSGA CIQCSYGRCPASFHVTCAHAAGVL\MEPDDWPYVVNITCFRHKV NPNVKSKACEKVISVGQTVITKHRNTRYYSCRVMAVTSQTFYEV MFDDGSFSRDTFPEDIVSRDCLKLGPPAEGEVVQVKWPDGKLYG AKYFGSNIAHMYQVEFEDCSQIAMKREDIYTLDEELPKRVKARF VSAGRCHLGTCQVNSLSSPHVSQAQQETYLGFWINSKKSQCNIF LSGTY
6057	1	853	FVARLKEQEGEGGLGPRKEKGRARGRERRRKMQLTRCCFVFLVQ GSLYLVICGQDDGPPGSEDPERDDHEGQPRPRVPRKRGHISPKS RPMANSTLLGLLAPPGEAWGILGQPPNRPNHSPPPSAKVKKIFG WGDFYSNIKTVALNLLVTGKIVDHGNGTFSVHFQHNATGQGNIS ISLVPPSKAVEFHQEQQIFIEAKASKIFNC\RMEWEKVE\RGRR TSLFTHDPAKICSRDHAQSSATWSCSQPFKVVCVYIAFYSTDYR LVQKVCPDYNYHSDTPYYPSG
6058	1	986	HPLPSASLGLPSVSLGVSLCVRSALLEAVVPMLPKRRRARVGSP SGDAASSTPPSTRFPGVAIYLVEPRMGRSRRAFLTGLARSKGFR VLDACSSEATHVVMEETSAEEAVSWQERRMAAAPPGCTPPALLD ISWLTESLGAGQPVPVECRHRLEVAGPSKGPLSPAWMPAYACQR PTPLTHHNTGLSEALEILAEAAGFEGSEGRLLTFCRAASVLKAL PSPVTTLSQLQGLPHFGEHSSRVVQELLEHGVCEEVERVRRSE/ RLFTQIFGVGVKTADRWYREGLRTLDDLREQPQKLTQQQKAGEP SREAGPWASLNCTLDPSASTP
6059	2	3650	QQDFESLADLTDHRAHRCPGDGDDDPQLSWVASSPSSKDVASPT QMIGDGCDLGLGEEEGGTGLPYPCQFCDKSFIRLSYLKRHEQIH SDKLPFKCTYCSRLFKHKRSRDRHIKLHTGDKKYHCHECEAAFS RSDHLKIHLKTHSSSKPFKCTVCKRGFSSTSSLQSHMQAHKKNK EHLAKSEKEAKKDDFMCDYCEDTFSQTEELEKHVLTRHPQLSEK

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			ADLQCIHCPEVFVDENTLLAHIHQAHANQKHXCPMCPE\QFSSV\EGVYCHLDSHRQPDSSNHSVSPDPVLGSVASMSSATPDSSASVERGSTPDSTLKPLRGQKKMRDDGQGWTKVVYSCPYCSKRDFNSLAVLEIHLKTIHADKPQQSHTCQICLDSMPTLYNLNEHVRKLHKNHAYPVMQFGNISAFHCNYCPEMFADINSLQEHIRVSHCGPNANPSDGNNAFFCNQCSMGFLTESSLTEHIQ\Q\AHCSVGSAKLESPVVQPTQSFMEVYSCPYCTNSPIFGSILKLTKHIKENHKNIPLAHSKKSKAEQSPVSSDVEVSSPKRQRLSASANSISNGEYPCNQCDLKFSNFESFQTHLKLHLELLLRKQACPQCKEDFDSQESLLQHLTVHYMTTSTHYVCESCDKQFSSVDD\LQKH\LLDMPHPLCCTHCT\LCQEVFDS\KVSI\QVHLAVKHSNEKKMYRCTACNWDFRKEADLQVHVKHSHLGNPAKAHKCIFCGETFSTEVELQCHITTHSKKYNCKFCSKAFHAIILLEKHLREKHCVFDAATENGTANGVPPMATKKAEPADLQGMLLKNPEAPNSHEASEDDVDASEPMYGCDICGAAYTMEVLLQNHRLRDHNIRPGEDDGSRKKAEFIKGSHKCNVCSRTFFSENGLREHLQTHRGPAKHYMCPICGERFPSLLTLTEHKVTHSKSLDTGTCRICKMPLQSEEEFIEHCQMHPDLRNSLTGFRCVVCMQTVTSTLELKIHGTFHMQKLAGSSAASSPNGQGLQKLYKCALCLKEFRSKQDLVKLDVNGLPYGLCAGCMARSANGQVGGLAPPEPADRPCAGLRCPECSVKFESAEDLESHMQVDHRDLTPETSGPRKGTQTSPVPRKKTYQCIKCQMTFENEREIQIHVANHMIEEGINHECKLCNQMFDSPAKLLCHLIEHSFEGMGGTFKCPVCFTVFVQANKLQQHIFAVHGQEDKIYDCSQCPQCKFFFQTELQNHTMSQHAQ
6060	2145	202	SYEIVGKNKLEVNHSQLKALCKCSLPSRLLPLGENLPLLDRGFRKEPRSRGSRERDNMLHLHHSCLCFRSWLPAMLAVLLSLAPSASSDISASRPNILLLMADDLGIGDIGCYGNNTMRTPNIDRLAEDGVKLTCHISAASLCTPSRAAFLTGRYPVRSGMVSSIGYRVLQWTGASGGLPTNETTFAKILEEKGYATGLIGKWHLGLNCESASDHCHHPLHHGFDHFYGMPFSLMGDCARWELSEKRVNLEQKLNFLFQVLALVALTLVAGKLTHLIPVSWMPVIWSALSAVLLLASSYFVGALIVHADCFLMRNHTITEQPMCFQRTTPLILQEVASFLKRNKHGPFLLFVSFLHVHIPLITMENFLGKSLHGLYGDNVKEMDWMVGRILDTLDVEGLSNSTLIYFTSDHGGSLENQLGNTQYGGWNGIYKGGKGMGGWEGGIRVPGIFRWPGVLPAGRVIGEPTSLMDVFPTVVRLAGSEVPQDRVIDGQDLLPLLLGTAQHSDHEFLMHYCERFLHAARWHQRDRGTMWKVHFVTFVFQPEGAGACYGRKVCPCFGEKVVHHDPPLLFDLSRDPSETHILTPASEPVFYQVMER\VQQAVWEHQRTLSPVPLQLDRLGNIWRPWLQPCCGPFPLCWCLREDDPQ
6061	110	1330	MNIHMKRKTIKNINTFENRMLMLDGMPAVRVKTELLESEQGSPNVHNYPDMEAVPLLLNNVKGEPPEDSLSVDHFQTQTEPVDLSINKARTSPTAVSSSPVSMTASASSPSSTSTSSSSSSRLASSPTVITSVSSASSSSTVLTPGPLVASASGVGGQQFLHIIHPVPPSSPMNLQSNKLSHVHRIPVVVQSVPVVYTAVRSPGNVNNTIVVPLLEDGRGHGKAQMDPRGLSPRQSKSLSDDDDLPNVTLDSVNETGSTALSIARAVQEVHPSPVSRVRGNRMNNQKFPCSISPFSIESTRRQRTVLNPPDSRKTAYSTDCDF\EGLQQKLYTKSSSPGRVHRRTHTGEKPYKCTWEGCTWKFARSDELTRHYRKHTGVKPFKCADCDRSFSRSDHLALHRRRHMLV
6062	71	1079	ETMAKNGPENCEDCHILNAEAFKSKKICKSLKICGLVFGILALTLIVLFWGSKHFWPEVPKKAYDMEHTFYSNGEKKKIYMEIDPVTRTEIFRSGNGTDETLEVHDFKNGYTGIYFVGLQKCFIKTQIKVIPEFSEPEEEIDENEEITTTFFEQSVIWVPAEKPIENRDFLKNSKILEICDNVTMYW\INPTL\ISGTFAKQLHHNFAFIILVSELQDFEEEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASEEELPINDYTENGIEFDPMLDERGYCCIYCRRGNRYCRRVCEPLLGYYPYPYCYQGGRVICRVIMPCNWWVARMLGRV
6063	71	1079	ETMAKNGPENCEDCHILNAEAFKSKKICKSLKICGLVFGILALTLIVLFWGSKHFWPEVPKKAYDMEHTFYSNGEKKKIYMEIDPVTRTEIFRSGNGTDETLEVHDFKNGYTGIYFVGLQKCFIKTQIKVIPEFSEPEEEIDENEEITTTFFEQSVIWVPAEKPIENRDFLKNSKILEICDNVTMYW\INPTL\ISGTFAKQLHHNFAFIILVSELQDFE

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			EEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASEEELP INDYTENGIEFDPMLDERGYCCIYCRRGNRYCRRVCEPLLGYYP YPYCYQGGRVICRVIMPCNWWVARMLGRV
6064	913	311	NLPQSLPRPTEHSPPYSLEKMTDLVAVWDVALSDGVHKIEFEHG TTSGKRVVYVDGKEEIRKEWMFKLVGKETFYVGAAKTKATINID AISGFAYEYTLEINGKSLKKYMEDRSKTTNTWVLHMDGENFRIV LEKDAMDVWCNGKKLETAGEFVDDGTETHFSIGTH\ACYIKAV\ SSG\KRKEGIIHTLIVDNREIPEIAS
6065	1153	641	MSVRVARVAWVRGLGASYRRGASSFPVPPPGAQGVAELLRDATG AEEEAPWAATERRMPGQCSVLLFPGQGSQVVGMGRGLLNYPRVR ELYAAARRVLGYDLLELSLHGPQETLDRTVHCQPAIFVASLAAV EKLHHLQPSVIENCVAAAGFSVGEFAALVFAGAMEFAEG
6066	68	3470	VKENMPATRKPMRYGHTEGHTEVCFDDGSFIVTCGSDGDVRIW EDLDDDDPKFINVGEKAYSCALKSGKLVTAVSNNTIQVHTFPEG VPDGILTRFTTNANHVVFNGDGTKIAAGSSD\FLVKIVDVMDSS QQKTFRGHDAPVLSLSFDPKDIFLASASCDGSVRVWQISDQTCA ISWPLLQKCNDVINAKSICRLAWQPKSGKLLAIPVEKSVKLYRR ESWSHQFDLSDNFISQTLNIVTWSPCGQYLAAGSINGLIIVWNV ETKDCMERVKHEKGYAICGLAWHPTCGRISYTDAEGNLGLLENV CDPSGKTSSSKVSSRVEKDYNDLFDGDDMSNAGDFLNDNAVEIP SFSKGIINDDEDDEDLMMASGRPRQRSHILEDDENSVDISMLKT GSSLLKEEEEDGQEGSIHNLPLVTSQRPFYDGPMPTPRQKPFQS GSTPLHLTHRFMVWNSIGIIRCYNDEQDNAIDVEFHDTSIHHAT HLSNTLNYTIADLSHEAILLACESTDELASKLHCLHFSSWDSSK EWIIDLPQNEDIEAICLGQGWAAAATSALLLRLFTIGGVQKEVF SLAGPVVSMAGHGEQLFIVYHRGTGFDGDQCLGVQLLELGKKKK QILHGDPLPLTRKSYLAWIGFSAEGTPCYVDSBGIVRMLNRGLG NTWTPICNTREHCKGKSDHYWVVGIHENPQQLRCIPCKGSRFPP TLPRPAVAILSFKLPYCQIATEKGQMEEQFWRSVIFHNHLDYLA KNGYEYEESTKNQATKEQQELLMKMLALSCKLEREFRCVELADL MTQNAVNLAIKYASRSRKLILAQKLSELAVEKAAELTATQVEEE EEERDFRKKLNAGYSNTATEWSQPRFRNQVEEDAEDSGEADDEE KPEIHKPGQNSFSKSTNSSDVSAKSGAVTFSSQGRVNPFKVSAS SKEPAMSMNSARSTNILDNMGKSSKKSTALSRTTNNEKSPIIKP LIPKPKPKQASAASYFQKRNSQTNKTEEVKEENLKNVLSETPAI CPPQNTENQRPKTGFQMWLEENRSNILSDNPDFSDEADIIKEGM IRFRVLSTEERKVWANKAKGETASEGTEAKRKRVVDESDETEN QEEKAKENLNLSKKQKPLDFSTNQKLSAFAFKQE
6067	858	321	LPWQRLGVLLSRGKMAVTGWLESLRTAQKTALLQDGRRKVHYLF PDGKEMAEEYDEKTSELLVRKWRVKSALGAMGQWQLEVGDPAPL GAGNLGPELIKESNANPIFMRKDTKMSFQWRIRNLPYPKDVYSV SVDQKERCIIVRTTNKKYYKKFSIPDLDRHQLPLDDALLSFA\T PTAP
6068	13	1730	GSKMADLANEEKPAIAPPVFVFQKDKGQKSPAEQKNLSDSGEEP RGEAEAPHHGTGHPESAGEHALEPPAPAGASASTPPPPAPEAQL PPFPRELAGRSAGGSSPEGGEDSDREDGNYCPPVKRERTSSLTQ FPPSQSEERSSGFRLKPPTLIHGQAPSAGLPSQKPKEQQRSVLR PAVLQAPQPKALSQTVPSSGTNGVSLPADCTGAVPAASPDTAAW RSPSEAADEVCALEEKEPQKNESSNASEEEACEKKDPATQQAFV FGQNLRDRVKLINESVDEADMENAGHPSADTPTATNYFLQYISS SLENSTNSADASSNKFVFGQNMSERVLSPPKLNEVSSDANRENA AAESGSESSSQEATPEKESLAESAAAYTKATARKCLLEKVEVIT GEEAESNVLQMQCKLFVFDKTSQSWVERGRGLLRLNDMASTDDG TLQSRLSDAGPRGSLR\LILNTKLWAQMQIDKASEK\SIRITAM DNEDQGVKVFLISASSKDTGQVYAALHHRILALRSRVEQEQEAK MPAPEPGAAPSNEEDDSDDDDVLAPSGATAAGAGDEGDGQTTGS T
6069	583	27	PTRPGQAGSSSAMAAQRLGKRVLSKLQSPSRARGPGGSPGGLQK RHARVTVKYDRRELQRRLDVEKWIDGRLEELYRGMEADMPDEIN IDELLELESEEERSRKIQGLLKSCGKPVEDFIQELLAKLQGLHR

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			Q\PGLRQFSPSP\DGQPSAPFQGPGARTASPLTLLALFPGPPER RPALLCVLSCI
6070	478	858	IRVTVDGEFLHYIFPLQFLDSPEW/RFTETHRGRHF\QVTLTAE TDCRYVSWRRKKLYLLFAQHRYISRLFSVLIGSDIADKLYALND RVYIGKRYHYDIRLPNFYQMSTPEIRRSPLTQHFQNSRRYW
6071	2	1654	HEARTKGNMALARP\VRLFSLVTRLLLAPRRGLTVRSPDEPLPV VRIPVALQRQLEQRQSRRRNLPRPVLVRPGPLLVSARRPELNQP ARLTLGRWERAPLASQGWKSRRARRDHFSIERAQQEAPAVRKLS SKGSFADLGAWKPRVLHALQE\AAPEVVQ\PTTVQSSTIPSLLR GRHVVCAAETGSGKTLSYLLPLLQRLLG\HPSLDSLPIPAPRGL VLVPSRELAQQVRAVAQPLGRSLGLLVRDLEGGHGMRRIRLQLS RQPSADVLVATPGALWKALKSRLISLEQLSFLVLDEADTLLDES FLELVDYILEKSHIAEGPADLEDPFNPKAQLVLVGATFPEGVGQ LLNKVASPDAVTTITSSKLHCIMPHVKQTFLRLKGADKVAELVH ILKHRDRAERTGPSGTVLVFCNSSSTVNWLGYILDDHKIQHLRL QGGMPALMRVGIFQSFQKSSRDILLCTDIASRGLDSTGVELVVN YDFPPTLQDYIHRAGRVGRVGSEVPGTVISFVTHPWDVSLVQKI ELAARRRRSLPGLASSVKEPLPQAT
6072	1	742	KMERTEMMPTINSQLEFKSKPFPLVSSSRWLVKRGELTAYVEDT VLFSRRTSKQQVYFFLFNDVLIITKKKSEESYNVNDYSLRDQLL VESCDNEELNSSPGKNSSTMLYSRQSSASHLFTLTVLSNHANEK VEMLLGAETQSERARWITALCHSSGKPPADRTSLTQVEIVRSFT AKQPDELSLQVADVVLI\YQRVSDGWYEGER\LRDGERGWFPME CAKEITCQATIDKNVERMGRLLGLETNV
6073	620	860	PCRRGLARPLSRRPG/SILVHCAVGVSRSATLVLAYLMLYHHLT LVEAIKKVKDHRGIIPNRGFLRQLLALDRRLRQGLEA
6074	168	1110	PGARCMATELCCPDSMPCHNQQVNSASTPSPEQLRPGDLILDHA GGNRASRAKVILLTGYAHSSLPAELDSGACGGSSLNSEGNSGSG DSSSYDAPAGNSFLEDCELSRQIGAQLKLLPMNDQIRELQTIIR DKTASRGDFMFSADRLIRLVVEEGLNQLPYKECMVTTPTGYKYE GVKFEKGNCGVSIMRSGEAMEQGLRDCCRSIRIGKILIQSDEET QRAKVYYAKFPPDIYRRKVLLMYPILQTG\NTVIEAVKVLIEHG VQPSVIILLSLFSTPHGAKSIIQEFPEITILTTEVHPVAPTHFG QKYFGTD
6075	320	1091	PPTCQPQEVEHH\YGYVPILGNKTLPSRCHQCVIVSSSSHLLGT KLGPEIERAECTIRMNDAPTTGYSADVGNKTTYRVVAHSSVFRV LRRPQEFVNRTPETVFIFWGPPSKMQKPQGSLVRVIQRAGLVFP NMEAYAVSPGRMRQFDDLFRGETGKDREKSHSWLSTGWFTMVIA VELCDHVHVYGMVPPNYCSQRPRLQRMPYHYYEPKGPDECVTYI QNEHSRKGNHHRFITEKRVFSSWAQLYGITFSHPSWT
6076	1721	107	HPSPTEAPRVQHLTMDCTWRILFLVAAATGTHAQVQLVQSGAEV KKPGASVKVSCKVSGYTLTELSMHWVRQAPGKGLEWMGAFDPED GETIYAQKFQGRVTMTEDTSTDTAYMELSSLRSEDTAVYYCATD HGDYAFDIWGQGTMVTVSSAPTKAPDVFPIISGCRHPKDNSPVV LACLITGYHPTSV\TVTWYMGTQSQA\QRTFPEIQRRDSYYMTS SQLSTPLQQWRQGEYKCVVQHTASKSKKEIFRWPESPKAQASSV PTAQPQAEGSLAKATTAPATTRNTGRGGEEKKKEKEKEEQEERE TKTPECPSHTQPLGVYLLTPAVQDLWLRDKATFTCFVVGSDLKD AHLTWEVAGKVPTGGVEEGLLERHSNGSQSQHSRLTLPRSLWNA GTSVTCTLNHPSLPPQRLMALREPAAQAPVKLSLNLLASSDPPE A\ASWLLCEVSGFSPPNILLMWLEDHGEVNTSGFAPARPLPKP\ RSTTFWA\WSVLRVPAPPSPQPATYTCVVSHEDSRTLLNASRSL EVSYVTDHGPMK
6077	3687	1268	LLPDMNLQPIFWIGLISSVCCVFAQTDENRCLKANAKSCGECIQ AGPNCGWCTNSTFLQEGMPTSARCDDLEALKKKGCPPDDIENPR GSKDIKKNKNVTNRSKGTAEKLKPEDITQIQPQQLVLRLRSGEP QTFTLKFKRAEDYPIDLYYLM\DLSYSMKDDLENVKSLGTDLMN EMRRITSDFRIGFGSFVEKTVMPYISTTPAKLRNPCTSEQNCTS PFSYKNVLSLTNKGEVFNELVGKQRISGNLDSPEGGFDAIMQVA VCGSLIGWRNVTRLLVFSTDAGFHFAGDGKLGGIVLPNDGQCHL

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			ENNMYTMSHYYDYPSIAHLVQKLSENNIQTIFAVTEEFQPVYKE LKNLIPKSAVGTLSANSSNVIQLIIDAYNSLSSEVILENGKLSE GVTISYQSY\CKNGVNGTGENGRKCSNISIGDEVQFEISITSNK CPKKDSDSFKIRPLGFTEEVEVILQYICECECQSEGIPESPKCH EGNGTFECGACRCNEGRVGRHCECSTDEVNSEDIGCFTARKENQ FQKSASNHGRVPSAGQCVCRKRDNTNEIYSGKFCECDNFNCDRS NGLICGGNGVCKCRVCECNPNYTGSACDCSLDTSTCEASNGQIC NGRGICECGVCKCTDPKFQGQTCEMCQTCLGVCAEHKECVQCRA FNKGEKKDTCTQECSYFNITKVESRDKLPQPVQPDPVSHCKEKD VDDCWFYFTYSVNGNNEVMVHVVENPECPTGPDIIPIVAGVVAG IVLIGLALLLIWKLLMIIHDRREFAKFEKEKMNAKWDTGENPIY KSAVTTVVNPKYEGK
6078	1426	180	ETEDVMELLEEDLTCPICCSLFDDPRVLPCSHNFCKKCLEGILE GSVRNSLWRPVPFKCPTCRKKTFSYWELIPLQVNYSLKGIVEKY NKIKISPKMPVCKGH\LGQPLNIF\CL\TDMQLDL/CGIC\ATR GEHTKHVFCSIEDAYAQERDAFESLFQSFETWRRGDALSRLDTL ETSKRKSLQLLTKDSDKVKEFFEKLQHTLDQKKNEILSDFETMK LAVMQAYDPEINKLNTILQEQRMAFNIABAFKDVSEPIVFLQQM QEFREKIKVIKETPLPPSNLPASPLMKNPDTSQWEDIKLVDVDK LSLPQDTGTFISKIPWSFYKLFLLILLLGLVIVFGPTMFLEWSL FDDLATWKGCLSNFSSYLTKTADFIEQSVFYWEQVTDGFFIFNE RFKNFTLVVLNNVAEFVCKYKLL
6079	1586	141	ATARDLGCARRIDRVVMESTPSRGLNRVHLQCRNLQEFLGGLSP GVLDRLYGHPATCLAVFRELPSLAKNWVMRMLFLEQPLPQAAVA LWVKKEFSKAQEESTGLLSGLRIWHTQLLPGGLQGLILNPIFRQ NLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDKYAEERWEVVL HFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFL LLDTPAQLWYFMLQYLQTAQSRGMDLVEILSFLFQLSFSTLGKD YSVEGMSDSLLNFLQHLREFGLVFQRKRKSRRYYPT/RALAINL SSGVSGAGGTVHQPGFIV\VETNYRLYAYTESELQIALIALFSE MLYPFP\NMVV\ARVTR\ESVQQAIASGITAQQIIHFLRTRAHP VMLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDF ELL\LAHAPKLGVLVFE/NTPAKRLMVVTPAGHSDVKRFWKRQK HSS
6080	1	1199	IETIDHVGEFAMAAQAAGVSRQRAATQGLGSNQNALKYLGQDFK TLRQQCLDSGVLFKDPEFPACPSALGYXDLGPGSPQTQGIIWKR PTELCPSPQFIVGGATRTDICQGGLGDCWLLAAIASLTLNEELL YRVVPRDQDFQENYAGIFHFQPLCPPSP\FWQYGEWVEVVIDDR LPTKNGQLLFLHSEQGNEFWSALLEKAYAKLNGCYEALAGGSTV EGFEDFTGGISEFYDLKKPPANLYQIIRKALCAGSLLGCSIDVY SAAEAEAITSQKLVKSHAYSVTGVEEVNFQGHPEKLIRLRNPWG EVEWSGAWSDDAPEWNHIDPRRKEELDKKVEDGEFWMSLSDFVR QFSRLEICNLSPDSLSSEEVHKWNLVLFNGHWTRGSTAGGCQNY PGSS
6081	3	865	EMLPLLLPLPLLWA/GALAQDARFRLEMPESVTVQEGLCIFVHC SVFYLEYGWKDSTPAYGHWFREGVSVDQETPVATNNSTQKVQKE TQGRFHLLGDPSRNNCSLSIRDARRRDNGSYFFWVARGRTKFSY KYSPLSVYVTALTHRPDILIPEFLKSGHPSNLTCSVPWVCEQGT PPIFSWMSAAPTSLGPRTLHSSVLTIIPRPQDHGTNLICQVTFP GAGVTTERTIQLSVSWKSGTVEEVVVLAVGVVAVKILLLCLCLI ILSFHKKKAVRAVEVBENVYAVMG
6082	283	1288	EARSPGPTQTRTAPGLAAPGLAQPAALRLLLSRPPSAAMDGDGD PESVGQPEEASPEEQPEEASAEEERPEDQQEEEAAAAA\Y\LDE LPEPLLA/LRVLAALPRHE\LVQACR\LVCLRWKELVDGAPLWL LKCQQEGLVPEGGVEEERDHWQQFYPLSKRRRNLLRNPCGEEDL EGWCDVEHGGDGWRVEELPGDSGVEFTHDESVKKYFASSFEWCR KAQVIDLQAEGYWEELLDTTQPAIVVKDWYSGRSDAGCLYELTV KLLSEHENVLAEFSSGQVAVPQDSDGGGWMEISHTFTDYGPGVR FVRFEHGGQDSVYWKGWFGARVTNSSVWVEP
6083	1865	309	KQWCAERRGLGMSLADELLADLEEAAEEEEGGSYGEEEEEPAIE

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			DVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKR FPELESLVPNALDYIRTVKELGNSLDKCKNNENLQQILTNATIM VVSVTASTTQGQQLSEEELERLEEACDMALELNASKHRIYEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPIPPPFSVAP\DL RRKAARLVAAKCTLAARVDSFHESTEGKVGYELKDEIERKFDKW QEPPPVKQVKPLPAPLDGQRKKRGGRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKA RISKTLQRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST
6084	1865	309	KQWCAERRGLGMSLADELLADLEEAAEEEGGSYGEEEEEPATE DVQEETQLDLSGDSVKTIAKLWDSKMFAEIMMKIEEYISKQAKA SEVMGPVEAAPEYRVIVDANNLTVEIENELNIIHKFIRDKYSKR FPELESLVPNALDYIRTVKELGNSLDKCKNNENLQQILTNATIM VVSVTASTTQGQQLSEEELERLEEACDMALELNASKHRIYEYVE SRMSFIAPNLSIIIGASTAAKIMGVAGGLTNLSKMPACNIMLLG AQRKTLSGFSSTSVLPHTGYIYHSDIVQSLPPIPPPFSVAP\DL RRKAARLVAAKCTLAARVDSFHESTEGKVGYELKDEIERKFDKW QEPPPVKQVKPLPAPLDGQRKKRGGRRYRKMKERLGLTEIR\KQ ANRMSFGEIEEDAYQEDLGFSLGHLGKSGSGRVRQTQVNEATKA RISKTLQRTLQKQSVVYGGKSTIRDRSSGTASSVAFTPLQGLEI VNPQAAEKKVAEANQKYFSSMAEFLKVKGEKSGLMST
6085	2	1456	SGPRSFQGNRAVGRISLGGKRNPEVTLLPGVSSERVRRWRRARV GVARVKPGNPWKPSPATQVPR/VPAQVYLPGRGPPLREGEELVM DEEAYVLYHRAQTGAPCLSFDIVRDHLGDNRTELPLTLYLCAGT QAESAQSNRLMMLRMHNLHGTKPPPSEGSDEEEEEEDEEDEEER KPQLELAMVPHYGGINRVRVSWLGEEPVAGVWSEKGQVEVFALR RLLQVVEEPQALAAFLRDEQAQMKPIFSFAGHMGEGFALDWSPR VTGRLLTGDCQKNIHLWTPTDGGSWHVDQRPFVGHTRSVEDLQW SPTENTVFASCSADASIRIWDIRAAPSKACMLTTATAHDGDVNV ISWSRREPFLLSGGDDGALKIWDLRQFKSGSPVATFKQHVAPVT SVEWHPQDSGVFAASGADHQITQWDLG/IVERDPEAGDVEADPG LADLPQQLLFVHQGETELKELHWHPQCPGLLVSTALSGFTIFRT ISV
6086	2419	1357	GAATQHGGAMNLLPCNPHGNGLLYAGFNQDHGCFACGMENGFRV YNTDPLKEKEKQEFLEGGVGHVEMLFRCNYLALVGGGKKPKYPP NKVMIWDDLKKKTVIEIEFSTEVKAVKLRR\DKIVVVLDSMIKV FTFTHNP\HQLHVFE\TCYNPKGLCVLCPNSNNSLLAFPGTHTG HVQLVDLASTEKPPVDIPAHEGVLSCIALNLQGTRIATASEKGT LIRIFDTSSGHLIQELRRGSQAANIYCINFNQDASLICVSSDHG TVHIFAAEDPKRNKQSSLASASFLPKYFSSKWSFSKFQVPSGSP CICAFGTEPNAVIAICADGSYYKFLFNPKGECIRDVYAQFLEMT DDKL
6087	476	1877	QNSQRTGLPITIFSRSFPLLTGSDLCENMPCTCTWRNWRQWIRP LVAVIYLVSIVVAVPLCVWELQKLEVGIHTKAWFIAGIFLLLTI PISLWVILQHLVHYTQPELQKPIIRILWMVPIYSLDSWIALKYP GIAIYVDTCRECYEAYVIYNFMGFLTNYLTNRYPNLVLILEAKD QQKHFPPLCCCPPWAMGEVLLFRCKLGVLQYTVVRPFTTIVALI CELLGIYDEGNFSFSNAWTYLVIINNMSQLFAMYCLLLFYKVLK EELSPIQPVGKFLCVKLVVFVSFWQAVVIALLVKVGVISEKHTW EWQTVEAVATGLQDFIICIEMFLAAIA\HHYTFSYKPYVQEABE GSCFDSFLAMWDVSDIRDDISEQVRHVGRTVRGHPRKKLFPEDQ DQNEHTSLLSSSSQDAISIASSMPPSPMGHYQGFGHTVTPQTTP TTAKISDEILSDTIGEKKEPSDKSVDS
6088	1684	689	GASGLVRLLQQGHRCLLAPVAPKLVPPVRGVKKGFRAAFRFQKE LERQRLLRCPPPPVRRSEKPNWDYHAEIQAFGHRLQENFSLDLL KTAFVNSCYIKSEEAKRQQLGIEKEAVLLNLKSNQELSEQGTSF SQTCLTQFLEDEYPDMPTEGIKNLVDFLTGEEVVCHVARNLAVE QLTLSEEFPVPPAVLQQTFFAVIGALLQSSGPERTALFIRDFLI TQMTGKELFEMWKIINPMGLLVEELKKRNVSAPESRLTRQSG\A

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			PTALPLYFVGLYCDKKLIAEGPGETVLVAEEEAARVALRKLYGF TENRRPWNYSKPKETLRAEKSITAS
6089	3	3054	TRLGIPGSTISSRPRLCALAAEGHFLGHSWTGSRAGAHTGAPAW PSRRLRDLPAGGMWRLRRAAVACEVCQSLVKHSSGIKGSLPLQK LHLVSRSIYHSHHPTLKLQRPQLRTSFQQFSSLTNLPLRKLKFS PIKYGYQPRRNFWPARLATRLLKLRYLILGSAVGCGYTAXKTFD QWKDMIPDLSEYKWIVPDIVWEIDEYIDFEKIRKALPSSEDLVK LAPDFDKIVESLSLLKDFFTSGSPEETAFRATDRGSESDKHFRK VSDKEKIDQLQEELLHTQLKYQRILERLEKENKELRKLVLQKDD KGIPFIESLRKSLIDMYSEVLDVLSDYDASYNTQDHLPRVVVVG DQSAGKTSVLEMIAQARIFPRGSGEMMTRSPVKVTLSEGPHHVA LFKDSSREFDLTKEEDLAALRHEIELRMRKNVKEGCTVSPETIS LNVKGPGLQRMVLVDLPGVINTVTSGMAPDTKETIFSISKAYMQ DPNAIILCIQDGSVDAERSIVTDLVSQMDPHGRRTIFVLTKVDL AEKNVASPSRIQQIIEGKLFPMKALGYFAVVTGKGNSSESIEAI REYEEEFFQNSKLLKTSMLKAHQVTTRNLSLAVSDCFWKMVRES VEQQADSFKATRFNLETEWKNNYPRLRELDRNELFEKAKNEILD EVISLSQVTPKHWEEILQQSLWERVSTHVIENIYLPAAQTMNSG TFNTTVDIKLKQWTDKQLPNKAVEVAWETLQEEFSRFMTEPKGK EHDDIFDKLKEAVKEESIKRHKWNDFAEDSLRVIQHNALEDRSI SDKQQWDAAIYFMEEALQARLKDTENAIENMVGPD\WKKRWLYW KNRTQEQCVHNETKNELEKMLKCNEEHPAYLASDEITTVRKNLE SRGVEVEDPSLIKDTWHQVYRRHFLKTALNHCNLCRRGFYYYQRH FVDSELECNDVVLFWRIQRMLAITANTLRQQLTNTEVRRLEKNV KEVLEDFAEDGEKKIKLLTGKRVQLAEDLKKVREIQEKLDAFIE ALHQEK
6090	194	1560	PVFVPAPGAVLEQAS/ASPPLATQTVVPLQHCKIPELPVQASIL FELQLFFCQLIALFVHYINIYKTVWWYPPSHPPSHTSLNFHLID FNLLMVTTIVLGRRFIGSIVKEASQRGKVSLFRSILLFLTRFTV LTATGWSLCRSLIHLFRTYSFLNLL/FPLLSVWDVHSVPAAELR P\RKTSLFNHMASMGPREAVSGLAKSRDYLLTLR\RRGSSTQDS CMARTPCP/PHACCLSPSLIRSEVEFLKMDFNWRMKEVLVSSML SAYYVAFVPVWFVKNTHYYDKRWSCELFLLVSISTSVILMQHLL PASYCDLLHKAAAHLGCWQKVDPALCSNVLQHPWTEECMWPQGV LVKHSKNVYKAVGHYNVAIPSDVSHFRFHFFFSKPLRILNILLL LEGAVIVYQLYSLMSSEKWHQTISLALILFSNYYAFFKLLRDRL VLGKAYSYSASPQRDLDHRFS
6091	3279	412	SSRTREMEEKEILRRQIRLLQGLIDDYKTLHGNAPAPGTPAASG WQPPTYHSGRAFSARYPRPSRRGYSSHHGPSWRKKYSLVNRPPG PSDPPADHAVRPLHGARGGQPPVPQQHVLERQVQLSQGQNVVIK VKPPSKSGSASASGAQRGSLEEFEDTPWSDQRPREGEGEPPRGQ LQPSRPTRARGTCSVEDPLLVCQKEPGKPRMVKSVGSVGDSPRE PRRTVSESVIAVKASFPSSALPPRTGVALGRKLGSHSVASCAPQ LLGDRRVDAGHTDQPVPSGSVGGPARPASGPRQAREASLVVTCR TNKFRKNNYKWVAASSKSPRVARRALSPRVAAENVCKASAGMAN KVEKPQLIADPEPKPRKPATSSKPGSAPSKYKWKASSPSASSSS SFRWQSEAGSKDHASQLSPVLSRSPSGD\RPAVGHSGLKPLSGE TPLSAYKVKSRTKIIRRRGGSTSLPGDKKSGTSPAATAKSHLSLR RRQALRGKSSPVLKKTPNKGLVQVTTHRLCRLPPSRAHLPTKEA SSLHAVRTAPTSKVIKTRYRIVKKTPASPLSAPPFPLSLPSWRA RRLSLSRSLVLNRLRPVASGGGKAQPGSPWWRSKGYRCIGGVLY KVSANKLSKTSGQPSDAGSRPLLRTGRLDPAGSCSRSLASRAVQ RSLAIIRQARQRREKRKEYCMYYNRFGRCNRGERCPYIHDPEKV AVCTRFVRGTCKKTDGTCPFSHHVSKEKMPVCSYFLKGICSNSN CPYSHVYVSRKAEVCSDFLKGYCPLGAKCKKKHTLLCPDFARRG ACPRGAQCQLLHRTQKRHSRRAATSPAPGPSDATARSRVSASHG PRKPSASQRPTRQTPSSAALTAAAVAAPPHCPGGSASPSSSKAS SSSSSSSSPPASLDHEAPSLQEAALAAACSNRLCKLPSFISLQS SPSPGAQPRVRAPRAPLTKDSGKPLHIKPRL
6092	143	3190	AKAPPTGESSEPEAKVLHTKRLYRAVVEAVHRLDLILCNKTAYQ EVFKPENISLRNKLRELCVKLMFLHPVDYGRKAEELLWRKVYYE

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			VIQLIKTNKKHIHSRSTLECAYRTHLVAGIGFYQHLLLYIQSHY QLELQCCIDWTHVTDPLIGCKKPVSASGKEMDWAQMACHRCLVY LGDLSRYQNELAGVDTELLAERFYYQALSVAPQIGMPFNQLGTL AGSKYYNVEAMYCYLRCIQSEVSFEGAYGNLKRLYDKAAKMYHQ LKKCETRKLSPGKKRCKDIKRLLVNFMYLQSLLQPKSSSVDSEL TSLCQSVLEDFNLCLFYLPSSPNLSLASEDEEEYESGYAFLPDL LIFQMVIICLMCVHSLERAGSKQYSAAIAFTLALFSHLVNHVNI RLQAELEEGENPVPAFQSDGTDEPESKEPVEKEEEPDPEPPPVT PQVGEGRKSRKFSRLSCLRRRRHPPKVGDDSDLSEGFESDSSHD SARASEGSDSGSDKSLEGGGTAFDAETDSEMNSQESRSDLEDME EEEGTRSPTLEPPRGRSEAPDSLNGPLGPSEASIASNLQAMSTQ MFQTKRCFRLAPTFSNLLLQPTTNPHTSASHRPCVNGDVDKPSE PASEEGSESEGSESSGRSCRNERSIQEKLQVLMAEGLLPAVKVF LDWLRTNPDLIIVCAQSSQSLWNRLSVLLNLLPAAGELQESGLA LCPEVQDLLEGCELPDLPSSLLLPEDMALRNLPPLRAAHRRFNF DTDRPLLSTLEESVVRICCIRSFGHFIARLQGSILQFNPEVGIF VSIAQSEQESLLQQAQAQFRMAQEEARRNRLMRDMAQLRLQLEV SQLEGSLQQPKAQSAMSPYLVPDTQALCHHLPVIRQLATSGRFI VIIPRTVIDGLDLLKKEHPGARDGIRYLEAEFKKGNRYIRCQKE VGKSFERHKLKRQDADAWTLYKILDSCKQLT\LAQGAGEEDPSG MVTIITGLPLDNPSLLSGPMQAALQAAAHASVDIKNVLDFYKQW KEIG
6093	76	1002	ACGRRAMLALRVART/SRWGAL\RGAVWAPGTRPSKRRACWALL PPVPCCLGCLAERWRLRPAALGLRLPGIGQRNHCSGAGKAAPR\ PAAGAGAAAEAPGGQWGPASTPSLYENPWTIPNMLSMTRIGLAP VLGYLIIEEDFNIALGVFALAGLTDLLDGFIARNWANQRSALGS ALDPLADKILISILYVSLTYADLIPVPLTYMIISRDVMLIAAVF YVRYRTLPTPRTLAKYFNPCYATARLKPTFISKVNTAVQLILVA ASLAAPVFNYADSIYLQILWCFTAFTTAASAYSYYHYGRKTVQV IKD
6094	23	1010	PFLRCLRGDQKAKMSERKVLNKYYPPDFDPSKIPKLKLPKDRQY VVRLMAPFNMRCKTCGEYIYKGKKFNARKETVQNEVYLGLPIFR FYIKCTRCLAEITFKTDPENTDYTMEHGATRNFQAEKLLEEEEK RVQKEREDEELNNPMKVLENRTKDSKLEMEVLENLQELKDLNQR QAHVDFEAMLRQHRLSEEERRRQQQEEDEQETAALLEEARKRRL LEDSDSEDEAAPSPLQPALRPNPTAILDEAPKPKRKVEVWEQSV GSLGSRPPLSRLVVVKKAKADPDCSNGQPQA/APHPRSPAEQEG GQPYTPDAWRVLPEPTGCIPGQ
6095	1	1599	TRGRAAERSRGRGHGFLGGGFA\SVVDYFPSEDFYRCGYCKNES GSRSNGMWAHSMTVQDYQDLIDRGWRRSGKYVYKPVMNQTCCPQ YTIRCRPLQFQPSKSHKKVLKKMLKFLAKGEVPKGSCE\DEPMD STMDDAVAGDFALINKLDIQCDLKTLSDDIKESLESEGKNSKKE EPQELLQSQDFVGEKLGSGEPSHS

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			VKVHTVPKPGKGADLSKPPCRKAKEIRKERKRLKLMQQNPAGEL EGFQAQGHPPSLFPPKAKSNQPKSLEDLIFESLPENASHKLEVR VVRSSPPSSQFKATLLESYQVYKRYQMVIHKNPPDTPTESQFTR FLCSSPLEAETPPNGPDCGYGSFHQQYWLDGKIIAVGVIDILPN CVSSVYLYYDPDYSFLSLGVYSALREIAFTRQLHEKTSQLSYYY MGFYIHSCPKMKYKGQYRPSDLLCPETYVWVPIEQCLPSLENSK YCRFNQDPEAVDEDRSTEPDRLQVFHKRAIMPYGVYKKQQKDPS EEAAVLQYASLVGQKCSERMLLFRN
6096	2277	575	QRVRAALLSSAMEDSEALGFEHMGLDPRLLQAVTDLGWSRPTLI QBKAIPLALEGKDLLARARTGSGKTAAYAIPMLQLLLHRKATGP VVEQAVRGLVLVPTKELARQAQSMIQQLATYCARDVRVANVSAA EDSVSQRAVLMEKPDVVVGTPSRILSHLCQDSLKLRDSLELLVV DEADLLFSFGFEEELKSLLCHLPRIYQAFLMSATFNEDVQALKE LILHNPVTLKLQESQLPGPDQLQQFQVVCETEEDKFLLLYALLK LSLIRGKSLLFVNTLERSYRLRLFLEQFSIPTCVLNGELPLRSR CHIISQFNQGFYDCVIATDAEVLGAPVKGKRRGRGPKCDKASDP EAGVARGIDFHHVSAVLNFDLPPTPEAYIHRAGRTARANNPGIV LTFVLPTEQFHLGKIEELLSGENRGPILLPYQFRMEEIEGFRYR CRDAMRSVTKQAIREARLKEIKEBLLHSEKLKTYFEDNPR\DLQ LLRHDLPLHPAVVKPHLGHVPDYLVPPALRGLVRPHKK\GRSCL PLVGRPREQSPRTHCAASSTKERNSDPQPSPPEVVGPLWS
6097	1673	192	APGTMSGGKKKSSFQITSVTTDYEGPGSPGASDPPTPQPPTGPP PRLPNGEPSPDPGGKGTPRNGSPPPGAPSSRFRVVKLPHGLGEP YRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGGAGGRSLDSRL ELASLGLGAPTPPSGLSQGPTSWLRPPPTSPGPQARSFTGGLGQ LVVPSKAKAEKPPLSASSPQQRPPEPETGESAGTSRAATPLPSL RVEAEAGGSGARTPPLSRRKAVDMRLRMELGAPEEMGQVPPLDS RPSSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMLAISGHL DSDDDSGSGSLVGIDNKIEQAMDLVKSHLMFAVREEVEVLKEQI RELAERNAALEQENGLLRALA\SPEQLGSAGPPRGVPR\LGPPA PNGPFVLSLPSLTIVPLGLPGLASAAWPPLPMPALIVPVFPGVG VQALSNGPWSPGPLPHLLIIPSLDGGGEGFRTGRQQGAPFGEET QPPPSLPGTPQQ
6098	168	1074	NYCLRHRSPLEKDSSPGSSSTSLLIKKQRETSDTPIMRALKELD EGKIFKNWGTQTEKEDTSNINPRQTETSVNASRSPEKCAQQRQK RLNSASQRSSSLPPSNRKSSTPTKREIMLTPVTVAYSPKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLDTVPVSTLQRTNPRKQL \QFLPLDDSEEK\TYSEKAT\DNIVNHSSCPEPVPNGVKKVSVR TAWEKNKSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKEKDQIEAALSRMPSPGGRITLQTRLNQEAFGRSFGKD
6099	168	1074	NYCLRHRSPLEKDSSPGSSSTSLLIKKQRETSDTPIMRALKELD EGKIFKNWGTQTEKEDTSNINPRQTETSVNASRSPEKCAQQRQK RLNSASQRSSSLPPSNRKSSTPTKREIMLTPVTVAYSPKRSPKE NLSPGFSHLLSKNESSPIRFDILLDDLDTVPVSTLQRTNPRKQL \QFLPLDDSEEK\TYSEKAT\DNIVNHSSCPEPVPNGVKKVSVR TAWEKNKSVSYEQCKPVSVTPQGNDFEYTAKIRTLAETERFF\D ELTKEKDQIEAALSRMPSPGGRITLQTRLNQEAFGRSFGKD
6100	2	713	FVEVSGYRSRADPEPRGRDTMTYAYLFKYIIIGDTGVGKSCLLL QFTDKRFQPVHDLTIGVEFGARMVNIDGKQIKLQIWDTAGQESF RSITRSYYRGAAGALLVYDITRRETFNHLTSWLEDARQHSSSNM VIMLIGNKSDLESRRDVKREEGEAFARE\HGLIFMETSAKTACN VEEAFINTAKEIYRKIQQGLFDVHNEANGIKIGPQQSISTSVGP SASQRNSRDIGSNSGCC
6101	1	1399	FRGRAWPLREVSHWLGCRRVCSWSASWGRLPALSARLSPLLAFR GKMVFPLSCAVQQYAWGKMGSNSEVARLLASSDPLAQIAEDKPY AELWMGTHPRGDAKILDNRISQKTLSQWIAENQDSLGSKVKDTF

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			NGNLPFLFKVLSVETPLSIQAHPNKELAEKLHLQAPQHYPDANH KPEMAIALTPFQGLCGFRPVEEIVTFLKKVPEFQFLIGDEAATH LKQTMSHDSQAVASSLQSCFSHLMKSEKKVVVEQLNLLVKRISQ QAAAGNNMEDIFGELLLQLHQQYPGDIGCFAIYFLNLLTLKPGE AMFLEANVPHAYLKGDCVECMACSDNTVRAGLTPKFIDVPTLCE MLSYTPSSSKDRLFLPTRSQEDPYLSIYDPPVPDFTIMKA\EVP G\SVTEYKDLALDSASILLMVQGTVIASTPTTQTPIPLQRGGVL FIGANESVSLKLTEPKDLLIFRACCLL
6102	70	2415	QTPQATLAANGAEDSRGGEMLPAGEIGASPAAPCCSESGDERKN LEEKSDINVTVLIGSKQVSEGTDNGDLPSYVSAFIEKEVGNDLK SLKKLDKLIEQRTVSKMQLEEQVLTISSEIPKRIRSALKNAEES KQFLNQFLEQETHLFSAINSHLLTAQPWMDDLGTMISQIEEIER HLAYLKWISQIEELSDNIQQYLMTNNVPEAASTLVSMAELDIKL QESSCTHLLGFMRATVKFWHKILKDKLTSDFEEILAQLHWPFIA PPQSQTVGLSRPASAPEIYSYLETLFCQLLKLQTSHELLTEPK\ HSQKNTLFLPPLLSS/WPIQVMLTPLQKRFRYHFRGNRQTNVLS KPEWYLAQVLMWIGNHTEFLDEKIQPILDKVGSLVNARLEFSRG LMMLVLEKLATDIPCLLYDDNLFCHLVDEVLLFERELHSVHGYP GTFASCMHILSEETCFQRWLTVERKFALQKMDSMLSSEAAWVSQ YKDITDVDEMKVPDCAETFMTLLLVITDRYKNLPTASRKLQFLE LQKDLVDDFRIRLTQVMKEETRASLGFRYCAILNAVNYISTVLA DWADNVFFLQLQQAALEVFAENNTLSKLQLGQLASMESSVFDDM INLLERLKHDMLTRQVDHVFREVKDAAKLYKKERWLSLPSQSEQ AVMSLSSSACPLLLTLRDHLLQLEQQLCFSLFKIFWQMLVEKLD VYIYQEIILANHFNEGGAAQLQFDMTRNLFPLFSHYCKRPENYF KHIKEACIVLNLNVGSALTAGKDVLPVQLQGSFPAT
6103	207	2523	ESNSTMTTYLEFIQQNEERDGVRFSWNVWPSSRLEATRMVVPVA ALFTPLKERPDLPPIQYEPVLCSRTTCRAVLNPLCQVDYRAKLW ACNFCYQRNQFPPSYAGISELNQPAELLPQFSSIEYVVLRGPQM PLIFLYVVDTCMEDEDLQALKESMQMSLSLLPPTALVGLITFGR MVQVHELGCEGISKSYVFRGTKDLSAKQLQEMLGLSKVPVTQAT RGPQVQQPPPSNRFLQPVQKIDMNLTDLLGELQRDPWPVPQGKR PLRSSGVALSIAVGLLECTFPNTGARIMMFIGGPATQGPGMVVG DELKTPIRSWHDIDKDNAKYVKKGTKHFEALANRAATTGHVIDI YACALDQTGLLEMKCCPNLTGGYMVMGDSFNTSLFKQTFQRVFT KDMHGQFKMGFGGTLEIKTPR\EIKISGAIGPCVSLNSKGPCVS ENEIGTGGTCQWKICGLSPTTTLAIYFEVVNQHNAPIPQGG\RG A\IQFVTQY\QHSSGQRRIRVTTIARN\WADAQTQIQNIAASFD QEAAAILMARLAIYRAETEEGPDVLRWLDRQLIRLCQKFGEYHK DDPSSFRFSETFSLYPQFMFHLRRSSFLQVFNNSPDESSYYRHH FMRQDLTQSLIMIQPILYAYSFSGPPEPVLLDSSSILADRILLM DTFFQILIYHGETIAQWRKSGYQDMPEYENFRHLLQAPVDDAQE ILHSRFPMPRYIDTEHGGSQARFLLSKVNPSQTHNNMYAWGQES GAPILTDDVSLQVFMDHLKKLAVSSAA
6104	124	732	KVSEYIILSKDKILFHALAMLVLVVSPWSAARGVLRNYWERLLR KLPQSRPGFPSPPWGPALAVQ\AQPCLQSQQMIPVEVKRI/RSL LDSIFWMAAPKNRRTIEVNRCRRRNPQKLIKVKNNIDVCPECGH LKQKHVLCAYCYEKVCKETAEIRRQIGKQEGGPFKAPTIETVVL YTGETPSEQDQGKRIIERDRKRPSWFTQN
6105	3	989	PLHGACTSLVLQRFCHRRPRPCAPARPEDMRRPAAVPLLLLLCF GSQRAKAATACGRPRMLNRMVGGQDTQEGEWPWQVSIQRNGSHF CGGSLIAEQWVLTAAHCFRNTSETSLYQVLLGARQLVQPGPHAM YARVRQVESNPLYQGTASSADVALVELEAPVPFTNYILPVCLPD PSVIFETGMNCWVTGWGSPSEEDLLPEPRILQKLAVPIIDT\PR CNLLYSKDTEFGYQPKTIKNDMLCAGFEEGKKDACKGDSAGPLV CLVGQSWLQAGVISWGEGCARQNRPGVYIRVTAHHNWIHRIIPK

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			LQVQPSEVGRPEVTPPGPGAP
6106	3	1302	GRPPTAPHTGRPPTANRGDPRLDLKRGCARLLTSIESRGRPAAS AGLRRDRCALRRWPLRRAPLARATRRRAGSPRRCAPRPRACPQG WSRARHQPGGLCLLLLLLCQFMEDRSAQAGNCWLRQAKNGRCQV LYKTELSKEECCSTGRLSTSWTEEDVNDNTLFKWMIFNGGAPNC IPCKETCENVDCGPGKKCRMNKKNKPRCVCAPDCSNITWKGPVC GLDGKTYRNECALLKARCKEQPELEVQYQGRCKXTCRDVFCPGS STCV\VDQTNNAYCVTCNRICPEPASSEQYLCGNDGVTYS\SAC HLRKATCLLGRSIGLAYEGKCIKAKSCEDIQCTGGKKCLWDFKV GRGRCSLCDELCPDSKSDEPVCASDNATYASECAMKEAACSSGV LLEVKHSGSCNSISEDTEEEEEDEDQDYSFPISSILEW
6107	623	168	SRCSSPRPEPGRGRGK/LSPSEHRKWVEVFKACDEDHKGYLSRE DFKTAVVMLFGYKPSKIEVDSVMSSINPNTSGILLEGFLNIVRK KKEAQRYRNEVRHIFTAFDTYYRGFLTLEDFKKAFRQVAPKLPE RTVLEVFREV\DRDS\DGHVSF
6108	3	1348	GGSLRFSPPRVPSCSRVFCPVPPGGCGLPSPMSASRPQSPTTPW CLPRRYMKHKRDDGPEKQEDEAVDVTPVMTCVFVVMCCSMLVLL YYFYDLLVVVVIGIFCLASATGLYSCLAPCVRRLP\SASAGESA LLAPTIPNNSLPYFHKRPQARMLLLALFCVAVSVVWGVFRNEDQ WAWVLQDALGIAFCLYMLKTIRLPTFKACTLLLLVLFLYDIFFV FITPFLTKSGSSIMVEVATGPSDSATREKLPMVLKVPRLNSSPL ALCDRPFSLLGFGDILVPGLLVAYCHRFDIQVQSSRVYFVACTI AYGVGLLVTFVALALMQRGQPALLYLVPCTLVTSCAVALWRREL GVFWTGSGFAKVLPPSPWAPAPADGPQPPKDSATPLSPQPPSEE PATSPWPAEQSPKSRTSEEMGAGAPMREPGSPAESEGRDQAQPS PVTQPGASA
6109	1	1381	CRSRAGAASGGAILEGTKLRRQRVDTNKPLDPLVPSALRAAMLY LEDYLEMIEQLPMDLRDRFTEMREMDLQVQNAMDQLEQRVSEFF MNAKKNKPEWREEQMASIKKDYYKALEDADEKVQLANQIYDLVD RHLRKLDQELAKFKMELEADNAGITEILERRSLELDTPSQPVNN HHAHSHTPVEKRKYNPTSHHTTTDHIPEKKFKSEALLSTLTSDA SKENTLGCRNNNSTASSNNAYNVNSSQPLGSYNIGSLSSGTGAG GI\TMAAAQAVQATAQMKEGRRTSSLKASYEAFKNNDFQLGKEF SMARETVGYSSSSALMTTLTQNASSSAADSRSGRKSKNNNKSSS QQSSSSSSSSSLSSGSSSSTVVQEISQQTTVVPESDSNSQVDWT YDPNEPRYCICNQVSYGEMVGCDTQDCPIEWFHYGCVGLTEAPK GKWYCPQCT\AAMKRRGSRHK
6110	77	2464	ACPSAATMSDQDHSMDEMTAVVKIEKGVGGNNGGNGNGGGAFSQ ARSSSTGSSSSTGGGGQESQPSPLALLAATCSRIESPNENSNNS QGPSQSGGTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSG SSTNGSNGSESSKNRTVSGGQYVVAAAPNLQNQQVLTGLPGVMP NIQYQVIPQFQTVDGQQLQFAATGAQVQQDGSGQIQIIPGANQQ IITNRGSGGNIIAAMPNLLQQAVPLQGLANNVLSGQTQYVTNVP VALNGNITLLPVNSVSAATLTPSSQAVTISSSGSQESGSQPVTS GTTISSASLVSSQASSSSFFTNANSYSTTTTTSNMGIMNFTTSG SSGTNSQGQTPQRVSGLQGSDALNIQQNQTSGGSLQAGQQKEGE Q\NQQTQAAPKSLSRPQLVQGG\QALQ\AFQAAPLSGQTFTTQA ISQETLQNLQLQAVPNSGPIIRTPTVGPNGQVSWQTLQLQNLQ VQNPQAQTITLAPMQGVSLGQTSSSNTTLTPIASAASIPAGTVT VNAAQLSSMPGLQTINLSALGTSGIQVHPIQGLPLAIANAPGDH GAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRRTRREACT CPYCKDSEGRGSGDPGKKKQHICHIQGCGKVYGKTSHLRAHLRW HTGERPFMCTWSYCGKRFTRSDELQRHKRTHTGEKKFACPECPK RFMRSDHLSKHIKTHQNKKGGPGVALSVGTLPLDSGAGSEGSGT ATPSALITTNMVAMEAICPEGIARLANSGINVKEGGQFCSPINT SANGF

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6111	1637	797	RVDPRVRGAMAPWGKRLAGVRGVLLDISGVLYDSGAGGGTAIAG SVEAVARLKRSRLKVRFCTNESQKSRAELVGQLQRLGFDISEQE VTAPAPAACQILKERGLRPYLLIHDGV\ASEFDQIDTS/STPNC VVIADAGESFSYQNMNNAFQVLMELEKPVLISLGKGRYYKETSG LMLDVGPYMKALEYACGIKAEVGGKPSPEFFKSALQAIGVEAHQ AVMIGDDIVGDVGGAQRCGMRALQVRTGKFRPSDEHHPEVKADG YVDNLAEAVDLLLQHADK
6112	77	196	MSSHKSFKSKRFLAKKQKPNRPILQWIWLKTGNKIRHNWK
6113	1779	567	WEGRSWAACGVNLQGAWGERSGVRASEAESPGKRADVSWWSRQL ETMVDHLANTEINSQRIAAVESCFGASGQPLALPGRVLLGEGVL TKECRKKAKPRIFFLFNDILVYGSIVLNKRKYRSQHIIPLEEVT LELLPETLQAKNRWMIKTAKKSFVVSAASSATERQEWISHIEECV RRQLRATGRPA\STEHAAPWIPDKATDICMRCTQTRFSALTRRH HCRKCRVVVCAECSRQRFLLPRLSPKPVRVCSLCYRELAAQQRK EEAEEQGAGVPRAASHLARPICGRPVEMTMTPTRTRRAAGTATG PAAWSSTPRGWPGLPSTADPRPAEHLSPSQLHCPGPQEGSSRSC PGLRDPIPWWQVQRWGVALSGLPVPFCWTLCPYGFTAGNAFPFR KPQNTHRSW
6114	818	246	PTSRPRPSPGSPAMSWSACVSAAPSSSWPASSSWPCGPRRCCTR RRRCSPRCGLAAGSMCSCSPSWRCTPVPACWPSPPP\PAEQVQC GHLPPHADRRALRLPVAAPARGPGPGHPAGPAGPRPARTPPASP HGPGRPTVPAPPCPLLAATEPTPSRPHQRWTREDRMLGRGSQVT GRPQWFLRGLVLFSL
6115	324	71	DVCGRVCAHPHLYTHIHMHICAHAC\IHTHAQLC/ITASHALAH SHLYTCMVMLTASHTPSHTHPHTAVHKEHRADVLRGTLTPLR
6116	595	1430	TGVMPPGRWHAA/ISSSGPVFEGARA\LQTVKKEEEDESYTPVQ AARPQTLNRPGQELFRQLFRQLRYHESSGPLETLSRLRELCRWW LRPDVLSKAQILELLVLEQFLSILPGELRVWVQLHNPESGEE\L WPCWRSCRGTLMGHPGGTRALP\EPRCALDGYRS\LRSAQIWSL ASPLRSSSALGDHLEPPYEIEARDFLAGQSDTPAAQMPALFPRE GCPGDQVTPTRSLTAQLQETMTFXDVEVTFSQDEWGWLDSAQRN LYRDVMLENYRNMASLGK
6117	1433	222	VGVPSPAPPCSWEVGPGGGWTPGILKEGQGGRRTPLLLLATRTR GLLSLFPPAAMHPAAFPLPVVVAAVLWGAAPTRGLIRATSDHNA SMDFADLPALFGATLSQEGLQGFLVEAHPDNACSPIAPPPPAPV NGSVFIALLRRFDCNFDLKVLNAQKAGYGAAVVHNVNSNELLNM VWNSEEIQQQIWIPSVFIGERSSEYLRALFVYEKGARVLLVPDN TFPLGYYLIPFTGIVGLLVLAMGAVMIARCIQHRKRLQRNRLTK \EQLKQI\PTHDYQKGDQYDVCAICLDEYEDGDKLRVLPCAHAY HSRCVDPWLTQTRKTCPICKQPVHRGPGDEDQEEETQGQEEGDE GEPRDHPASERTPLLGSSPTLPTSFGSLAPAPLVFPGPSTDPPL SPPSSPVILV
6118	1044	247	STISCRACTSGATPGAQSHRSARGHAAGGKETAALGMERGKVKK KEKEKETQKEKIGEKGREEKVRKEVEQKIKQEKQEKQERRKGK EKEEKRTKQGKETNKEKEQFKGQEEKGENKDSTLTRTPLEPLEK NKQILVLGLDGAGKTSVLHSLASNRVQHSVAPTQGFHAVCINTE DSQMEFLEIGGSKPFRSYWEMYLSN/ADSLARSFSVGFKQDSQP ITWKAKKYLHQLIAANPVLPLVVFANKQDLEAAYHITDIHEALA II
6119	1217	462	DPRFVTENTTKAPAQERTTQPRSSREGTLRSTMEYLSALNPSDL LRSVSNISSSEFGRRVWTSAPPPQRPFRVCDHKRTIRKGLTAATR QELLAKALETLLLNGVLTLVLEEDGTAVDSEDFFQLLEDDTCLM VLQSGQSWSPTRSGVLSYGLGRERPKHSKDIARFTFDVYKQNPR DLFGSLNVKATFYGLYSMSCDFQGL\GPKKVLRELLRWTSTLLQ GLGHMLLGISSTLRHAVEGAEQWQQKGRLHSY

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6120	785	179	LERAGGGGLSSRALVGSGACLSLVARANGKGLPRGRKEFVEAVR VRYVAFRYRTPRAVCLRLWSCRREVIMSGRGKQGGKVRAKAKSR SSRAGLQFPVGRVHRLLRKGNYAERVGAGAPVYLAAVLEYLTAE ILELAGNAARDNKKTRIIPRHLQLAIRNDEELNKLLGKVTIAQG G\VLPNIQAVLLPKKTESQKDEGANDP
6121	1612	107	FVRAQARGSRQPVRRPLLGAGSRLRCRSCGRMEPLKVEKFATAN RGNGLRAVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLGKE KLMRCSQCRVAKYCSAKCQKKAWPDHKRECKCLKSCKPRYPPDS VRLLGRVVFKLMDGAPSESEKLYSFYDLESNINKLTEDKKEGLR QLVMTFQHFMREEIQDASQLPPAFDLPEAFAKVICNSFTICNAE MQEVGVGLYPSISLLNHSCDPNCSIVFNGPHLLLRAVRDIEVGE ELTICYLDMLMTSEERRKQLRDQYCFECD\CFRCQTQDKDADML TGDEQVWKEVQESLKKIEELKAHWKWEQVLAMCQAIISSNSERL PDINIYQLKVLDCAMDACINLGLLEEALFYGTRTMEPYRIFFPG SHPVRGVQVMKVGKLQLHQGMFPQAMKNLRLAFDIMRVTHGREH SLIEDLILLLE/AMRRQHQSILRERSQREIRRVSLLNALLRSHT LCFVSCVNLSYWKFCSVFV
6122	2	2324	RFRKMADGGAASQDESSAAAAAAADSRMNNPSETSKPSMESGDG NTGTQTNGLDFQKQPVPVGGAISTAQAQAFLGHLHQVQLAGTSL QAAAQSLNVQSKSNEESGDSQQPSQPSQQPSVQAAIPQTQLMLA GGQITGLTLTPAQQQLLLQQAQAQAQLLAAAVQQHSASQQHSAA GATISASAATPMTQIPLSQPIQIAQDLQQLQQLQQQNLNLQQFV LVHPTTNLQPA\QFIISQTPQGQQGLLQA\QNLLTQLPRQSQAN LLQSQPRI\TLTSQPATPTCTIAATPIQTLPQSQSTPKRIDTPS LEEP\SDLEELEQFAKTFKQRRIKLGFT\QGDAGLAMVKLYGND FSPTTIFRFEALNLSFKNMCKLKPLLEKWLNDAENLSSDSSLSS PSALNSPGIEGLSRRRKKRTSIEA\NIRVALEKSFLEN\QKPTS EEITMIADQLNMEKGVIRVWFCNRRQKEKRINPPSSGG\TSSSP IKAIFPSPTSLVATTPSLVTSSAATTLTVSPVLPLTSAAVTNLS VTGTSDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEA SSASETSTTQTTSTPLSSPLGTSQVMVTASGLQTA/AQLLPFKG AAQLPANASLAAMAAAAGLNPSLMAPSQFAAGGALLSLNPGTLS GALSPALMSNSTLATIQALASGGSLPITSLDATCNLVFANAGGA PNIVTAPLFLNPQNLSLLTSNPVSLVSAAAASAGNSAPVASLHA TSTSAESIQNSLFTVASASGAASTTTTASKAQ
6123	3	2944	HLLHRWFGTDMQMINFTTGEFQLTEACPYLGTHSEESRFGILHL HLQPLEMKRVGVVFTPADYGKVTSLILIRNNLTVIDMIGVEGFG ARELLKVGGRLPGAGGSLRFKVPESTLMDCRRQLKDSKQILSIT KNFKVENIGPLPITVSSLKINGYNCQGYGFEVLDCHQFSLDPNT SRDISIVFTPDFTSSWVIRDLSLVTAADLEFRFTLNVTLPHHLL PLCADVVPGPSWEESFWRLTVFFVSLSLLGVILIAFQQAQYILM EFMKTRQRQNASSSSQQNNGPMDVISPHSYKSNCKNFLDTYGPS DKGRGKNCLPVNTPQSRIQNAAKRSPATYGHSQKKHKCSVYYSK HKTSTAAASTSTTTEEKQTSPLGSSLPAAKEDICTDAMRENWI SLRYASGINVNLQKNLTLPKNLLNKEENTLKNTIVFSNPSSECS MKEGIQTCMFPKETDIKTSENTAEFKERELCPLKTSKKLPENHL PRNSPQYHQPDLPEISRKNNGNNQQVPVKNEVDHCENLKKVDTK PSSEKKIHKTSREDMFSEKQDIPFVEQEDPYRKKKLQEKREGNL QNLNWSKSRTCRKNKKRGVAPVSRPPEQSDLKLVCSDFERSELS SDINVRSWCIQESTREVCKADAEIASSLPAAQREAEGYYQKPEK KCVDKFCSDSSSDCGSSSGSVRASRGSWGSWSSTSSSDGDKKPM VDAQHFLPAGDSVSQNDFPSEAPISLNLSHNICNPMTGNSLPQY AEPSCPSLPAGPTGVEEDKGLYSPGDLWPTPPVCVTSSLNCTLE NGVPCVIQESAPVHNSFIDWSATCEGQFSSAYCPLELNDYNAFP EENMNYANGFPCPADVQTDFIDHNSQSTWNTPP\NMPAS\WGNA QFPSSSRPYLKSTPKACLPMSGLFGPI\WAP\QSDVYENCCPIN

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			PTTEHSD/THMENQA\VVCKEYYPGF\NPFRAYMNLDIWTTT\ANRNANFPLSRDSSYCGNV
6124	1573	236	SDEALRLAGERGMGRVQLFEISLSHGRVVYSPGEPLAGTVRVRLGAPLPFRAIRVTCIGSCGVSNKANDTAWVVEEGYFNSSLSLADKGSLPAGEHSFPFQFLLPATAPTSFEGPFGKIVHQVRAAIHTPRFSKDHKCSLVFYILSPLNLNSIPDIEQPNVASATKKFSYKLVKTGSVVLTASTDLRGYVVGQALQLHADVENQSGKDTSPVVASLLQKVSYKAKRWIHDVRTIAEVEGAGVKAWRRAQWHEQILVPALPQSALPGCSLIHIDYYLQVSLKAPEATVTLPVFIGNIAV/NPCPSEPPARPGAASWGPTPGG\PSAPPQEEAEAEAAAGGPHFLDPVFLSTKSHSQRQPLLATLSSVPGAPEPCPQDGSPASHPLHPPLCISTGATVPYFAEGSGGPVPTTSTLILPPEYSSWGYPYEAPPSYEQSCGGVEPSLTPES
6125	1	904	KTCPKLTCAFTVSVPDSCCRVCRGDGELSWEHSDGDIFRQPANREARHSYHRSHYDPPPSRQAGGLSRFPGARSHRGALMDSQQASGTIVQIVINNKHKHGQVCVSNGKTYSHGESWHPNLRAFGIVECVLCTCNVTKQECKKIHCPNRYPCKYPQKIDGKCCKVCPG/KKAKEELPGQSFDNKGYFCGEETMPVYESVFMEDGETTRKIALETERPPQVEVHVWTIRKGILQHFHIEKISKRMFEELPHFKLVTRTTLSQWKIFTEGEAQISQMCSSRVCRTELEDLVKVLYLERSEKGHC
6126	1224	389	RLLSEAPCPRSRRRFQMNPEWGQAFVHVAVAGGLCAVAVFTGIFDSVSVQVGYEHYAEAPVAGLPAFLAMPFNSLVNMAYTLLGLSWLHRGGAMGLGPRYLKDVFAAMALLYGPVQWLRLWTQWRRAAVLDQWLTLPIFAWPVAWCLYLDRGWRP\WLFLSLECVSLASYGLALLHPQGFEVALGAHVVPAVGQALRT\HRHYG/SATPSATYLALGVLSCLGFVVLKLCDHQLARWRLFQCLTGHFWSKVCDVLQFHFAFLFLTHFNTHPRFHPSGGKTR
6127	1335	463	VLPRRCLVFVVNTMDSSREPTLGRLDAAGFWQVWQRFDADEKGYIEEKELDAFFLHMLMKLGTDDTVMKANLHKVKQQFMTTQDASKDGRIRMKELAGMFLSEDENFLLLFRRENPLDSSVEFMQIWRKYDADSSGFISAAELRNFLRDLFLHHKKAISEAKLEEYTGTMMKIFDRNKDGRLDLNDLARILALQENFLLQFKMDACSTEKRKGDFEKIFAYYDVSKTGALEGP\EVDGFVKDMMELVQPSISGVDLDKFREILLRHCDVNKDGKIQKSELALCLGLKINP
6128	2511	843	TCRMSRRQLERWVWSSQQVQARGRNVRAPRLGKIAMGLEMSSKDSPGSLDGRAWEDAQKPQSAWCGGRKTRVYATSSRRAPPSEGTRRGGAARPEKTAEEGPPAAPGSLRHSGPLGPHACPTALPEPQVTSAMSSQVVGIEPLYIKAEPASPDSPKGSSETETEPPVALAPG\PAPTRCLPGHKEEEDGEGAGPGEQGGGKLVLSSLPKRLCLVCGDVASGYHYGVASCEACKAFFKRTIQGSIEYSCPASNECEITKRRRKACQACRFTKCLRVGMLKEGVRLDRVRGGRQKYKRRPEVDPLFPGPFPAGPLAVAGGPRKTAAPVNALVSHLLVVEPEKLYAMPDFAGPDGHLPAVATLCDLFDREIVVTISWAKSIPGFSSLSLSDQMSVLQSVWMEVLVLGVAQRSLTLQDELAFAEYLVLDEEGARPAGLGELG\AALLQLVRRLQALRLEREEYVLLKALALANSDSVHIEDEPRLWSSCEKLLHEALLEYEAGRAGPGGGAERRRAGRLLLTLPLLRQTAGKVLAHFYGVKLEGKVPMHKLFLEMLEAMMD
6129	1764	771	ARFARSAHEGKMPKKKTGARKKAENRREREKQLRASRSTIDLAKHPCNASMECDKCQRRQKNRAFCYFCNSVQKLPICAQCGKTKCMMKSSDCVIKHAGVYSTGLAMVGAICDFCEAWVCHGRKCLSTHACACPLTDAEC\VECERGVWDHGGRIFSCSFCHNFLCEDDQFEHQASCQVLEAETFKCVSCNRLGQHSCLRCKACFCDDHTRSKVFKQEKGKQPPCPKCGHETQETKDLSMSTRSLKFGRQTGGEEGDGASGYDAYWKNLSSDKYGDTSYHDEEEDEYEAEDDEEEEDEGRKDSDTESSDLFTNLNLGRTYASGYAHYEEQEN
6130	3	577	GRGGTMREYKVVVLGSG\GVGKSALTV\QFVTCTFIEKYDPTIE

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			DFYRKEIEV\DSSPSVAGISWTQQGTEQF\ASMRDLYIKKGQGC ILVYSLVNQQSFQ\DIKPMRDQIIRVKVSEKVPVI\LVGN\SVD LESEREVSSSEGRALAEEWGCPFMETSAKSKTMVDELFAEIVRQ MNYAAQPDKDDPCCSACNIQ
6131	3	1811	SSPREKTSDSSHRPSRHGFLFLRLVGLSPFSYLCVPPSRPVPGS PRSLSAMRLLPLAPGRLRRGSPRHLPSCSPALLLLVLGGCLGVF GVAAGTRRPNVVLLLTDDQDEVLGGMTPLKKTKALIGEMGMTFS SAYVPSALCCPSRASILTGKYPHNHHVVNNTLEGNCSSKSWQKI QEPNTFPAILRSMCGYQTFF\AGKYLNEYGAPDAGGLEHVPLGW SYWYALEKNSKYYNYTLSINGKARKHGENYSVDYLTDVLANVSL DFLDYKSNFEPFFMMTATP\APHSPWTAAPQYQKAFQNVFAPRN KNFNIHGTNKHWLIRQAKTPMTNSSIQFLDNAFRKRWQTLLSVD DLVEKLVKRLEFTGELNNTYIFYTSDNGYHTGQFSLPIDKRQLY EFDIKVPLLVRGPGIKPNQTSKMLVANIDLGPTILDIAGYDLNK TQMDGMSLLPILRGASNLTWRSDVLVEYQGEGRNVTDPTCPSLS PGVSQCFPDCVCEDAYNNTYACVRTMSALWNLQYCEFDDQEVFV EVYNLTADPDQITNIAKTIDPELLGKMNYRLMMLQSCSGPTCRT PGVFDPGYRFDPRLMFSNRGSVRTRRFSKHLL
6132	96	1241	AAGLLPPGLVPEDPRRTRNLLPFGIQGPPFALSRPLFSCVESGW AWEAMEPEFLYDLLQLPKGVEPPAEEELSKGGKKKYLPPTSRKD PKFEELQKPA\VLMEWINATLLPEHIVVRSLEEDMFDGLILHHL FQRLAALKLEAEDIALTATSQKHKLTVVLEAVNRS\CSWRSGRP SGA/WESIFNKDLLSTLHLLVALAKRFQPDLSLPTNVQVEVITI ESTKSGLKSEKLVEQLTEYSTDKDEPPKDVFDELFKLAPEKVNA VKEAIVNFVNQKLDRLGLSVQNLDTQFADGVILLLLIGQLEGFF LHLKEFYLTPNSPAEMLHNVTLALELL/IGRGPAQLPC/LALK/ TIVNKDAKSTLRVLYGLFCKHTQKAHRDRTPHGAPN
6133	2	4256	FVHGSMADTDLFMECEEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQQPVSAPVPIAAHASVAGHLSTSTTVSSSGAQNSDSTK KTLVTLIANNNAGNPLVQQGGQPLILTQNPAPGLGTMVTQPVLR PVQVMQNANHVTSSPVASQPIFITTQGFPVRNVRPVQNAMNQVG IVLNVQQGQTVRPITLVPAPGTQFVKPTVGVPQVFSQMTPVRPG STMPVRPTTNTFTTVIPATLTIRSTVPQSQSQQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTTNPKLAPSFPSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNNSSAH\ GSQRTSGPESSMKVTSSIPVFDLQDGGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHHVE LDQQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLKVFKNGNAFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDKIEHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRGQPRTVPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCSLCRYST CCSRAYANHMINNHVPRKSPKYLALFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNMYPPPSFPTNKAATVKSAGATPAEPEELLTPLAPALPSPA STATPPPTPTHPQALALPPLATEGAECLNVDDQDEGSPVTQEPE LASGGGGSGGVGKKEQLSVKKLRVVLFALCCNTEQAAEHFRNPQ RRIRRWLRRFQASQGENLEGKYLSFEAEEKLAEWVLTQREQQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRFMLRHHLTPHARRA VAHTLPKDVAENAGLFIDFVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDDEIMELWSTRVWQKHTACQ RSKGMLVMDCHRTHLSEEVLAMLSASSTLPAVVPAGCSSKIQPL

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			DVCIKRTVKNFLHKKWKEQAREMADTACDSDVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPGPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETIEPESLHQLFEGESETES FYGFEEADLDLMEI
6134	2	4256	FVHGSMADTDLFMECEEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQQPVSAPVPIAAHASVAGHLSTSTTVSSSGAQNSDSTK KTLVTLIANNNAGNPLVQQGGQPLILTQNPAPGLGTMVTQPVLR PVQVMQNANHVTSSPVASQPIFITTQGFPVRNVRPVQNAMNQVG IVLNVQQGQTVRPITLVPAPGTQFVKPTVGVPQVFSQMTPVRPG STMPVRPTTNTFTTVIPATLTIRSTVPQSQSQQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTTNPKLAPSFPSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNNSSAH\ GSQRTSGPESSMKVTSSIPVFDLQDGGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHHVE LDQQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLKVFKNGNAFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDKIEHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRGQPRTVPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCSLCRYST CCSRAYANHMINNHVPRKSPKYLALFKNSVSGIKLACTSCTFVT SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNMYPPPSFPTNKAATVKSAGATPAEPEELLTPLAPALPSPA STATPPPTPTHPQALALPPLATEGAECLNVDDQDEGSPVTQEPE LASGGGGSGGVGKKEQLSVKKLRVVLFALCCNTEQAAEHFRNPQ RRIRRWLRRFQASQGENLEGKYLSFEAEEKLAEWVLTQREQQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRFMLRHHLTPHARRA VAHTLPKDVAENAGLFIDFVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDDEIMELWSTRVWQKHTACQ RSKGMLVMDCHRTHLSEEVLAMLSASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFLHKKWKEQAREMADTACDSDVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPGPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETIEPESLHQLFEGESETES FYGFEEADLDLMEI
6135	2	4256	FVHGSMADTDLFMECEEEELEPWQKISDVIEDSVVEDYNSVDKT TTVSVSQQPVSAPVPIAAHASVAGHLSTSTTVSSSGAQNSDSTK KTLVTLIANNNAGNPLVQQGGQPLILTQNPAPGLGTMVTQPVLR PVQVMQNANHVTSSPVASQPIFITTQGFPVRNVRPVQNAMNQVG IVLNVQQGQTVRPITLVPAPGTQFVKPTVGVPQVFSQMTPVRPG STMPVRPTTNTFTTVIPATLTIRSTVPQSQSQQTKSTPSTSTTP TATQPTSLGQLAVQSPGQSNQTTNPKLAPSFPSPPAVSIASFVT VKRPGVTGENSNEVAKLVNTLNTIPSLGQSPGPVVVSNNSSAH\ GSQRTSGPESSMKVTSSIPVFDLQDGGRKICPRCNAQFRVTEAL RGHMCYCCPEMVEYQKKGKSLDSEPSVPSAAKPPSPEKTAPVAS /THPSSTPIPALSPPY/TKVPEPNENVGDAVQTKLIMLVDDFYY GRDGGKVAQLTNFPKVATSFRCPHCTKRLKNNIRFMNHMKHHVE LDQQNGEVDGHTICQHCYRQFSTPFQLQCHLENVHSPYESTTKC KICEWAFESEPLFLQHMKDTHKPGEMPYVCQVCQYRSSLYSEVD VHFRMIHEDTRHLLCPYCLKVFKNGNAFQQHYMRHQKR\NVYH\ CNKCRVQFLFAKDKIEHKLQHHKTFRKPKQLEGLKPGTKVTIRA SRGQPRTVPVSSNDTPPSALQEAAPLTSSMDPLPVFLYPPVQRS IQKRAVRKMSVMGRQTCLECSFEIPDFPNHFPTYVHCSLCRYST CCSRAYANHMINNHVPRKSPKYLALFKNSVSGIKLACTSCTFVT

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			SVGDAMAKHLVFNPSHRSSSILPRGLTWIAHSRHGQTRDRVHDR NVKNMYPPPSFPTNKAATVKSAGATPAEPEELLTPLAPALPSPA STATPPPTPTHPQALALPPLATEGAECLNVDDQDEGSPVTQEPE LASGGGGSGGVGKKEQLSVKKLRVVLFALCCNTEQAAEHFRNPQ RRIRRWLRRFQASQGENLEGKYLSFEABEKLAEWVLTQREQQLP VNEETLFQKATKIGRSLEGGFKISYEWAVRFMLRHHLTPHARRA VAHTLPKDVAENAGLFIDFVQRQIHNQDLPLSMIVAIDEISLFL DTEVLSSDDRKENALQTVGTGEPWCDVVLAILADGTVLPTLVFY RGQMDQPANMPDSILLEAKESGYSDDEIMELWSTRVWQKHTACQ RSKGMLVMDCHRTHLSEEVLAMLSASSTLPAVVPAGCSSKIQPL DVCIKRTVKNFLHKKWKEQAREMADTACDSDVLLQLVLVWLGEV LGVIGDCPELVQRSFLVASVLPGPDGNINSPTRNADMQEELIAS LEEQLKLSGEHSESSTPRPRSSPEETIEPESLHQLFEGESETES FYGFEEADLDLMEI
6136	1704	539	FGVRMALEGMSKRKRKRSVQEGENPDDGVRGSPPEDYRLGQVAS SLFRGEHHSRGGTGRLASLFSSLEPQIQPVYVPVPK\ESALASA DLEEEIHQKQGQKRKNSQPGVKVADRKILDDTEDTVVSQRKKIQ INQEEERLKNERTVFVGNLPVTCNKKKLKSFFKEYGQIESVRFR SLIPAEGTLSKKLAAIKRKIHPDQKNINAYVVFKEESAATQALK RNGAQIADGFRIRVDLASETSSRDKRSVPVGNLPYKVEBSAIEK HFLDCGSIMAVRIVRDKMTGIGKGFGYVLFBNTDSVHLALKLNN SELMGRKLRVMRSVNKEKFKQQNSNPRLKNVSKPKQGLNFTSKT AEGHPKSLFIGEKAVLLKTKKKGQKKSGRPKKQRKQK
6137	141	2656	RALRKRRCGPGRRGALGSGPGPQRRPGRVPEERPAPPRERKHPG MWNMLIVAMCLA\LLGLPGKAQELQGHVS\ILLAGEQLGDLAKK YLWQG\LFQLYLDEAGRGHSFSFHGAALTAPKQGQELMAKALES LSCPKDMAPSHCAEHKDQFLQLSQYRQLKTAEDYQALNKDIEAQ LQHAGLREAGGIFYFSVPPFAYEDIARNINSSCRPGPGAWLRVV LEKPFGHDHFSAQQLATELGTFFQEEEMYRVDIIYLGKQAVAQIL PFRDQNRKALDGLWNRHHVERVEIIMKETVDAEGRTSFYEEYGV IRDVLQNHLTEVLTLVAMELPHNVSSAEAVLRHKLQVFQALRGL QRGSAVVGQYQSYSEQVRRELQKPDSFHSLTPTFAGVLVHIDNL RWEGVPFILMSGKALDERVGYARILFKNQACCVQSEKHWAAAQS QCLPRQLVFHIGHGDLGSPAVLVSRNLFRPSLPSSWKEMEGPPG LRLFGSPLSDYYAYSPVRERDAHSVLLSHIFHGRKNFFITTENL LASWNFWTPLLESLAHKAPRLYPGGAENGRLLDFEFSSGRLFFS QQQPEQLVPGPGPGPMPSDFQVLRAKYRESSLVSAWSEELISKL ANDIEATAVRAVRRFGQFHLALSGGSSPVALFQQLATAHYGFPW AHTHLWLVDERCVPLSDPESNFQGLQAHLLQHVRIPYYNIH\AM PVHLQQRLCAEEDQGAHIYAREISALGANSSFDLVLLGMGADGH TASLFPQSPTGLDGEQLVVLTTSPSQPHRRMSLSLPLINRAKKV AVLVMGRMKREITTLVSRVGHEPKKWPISGVLPHSGQLVWYMDY DAFLG
6138	4587	934	EFSKLTDRWQNAVQGVRQRKGDVDGLVRQWQDFTTSVENLFRFL TDTSHLLSAVKGQERFSLYQTRSLIHELKNKEIHFQRRRTTCAL TLEAGEKLLLTTDLKTKESVGRRISQLQDSWKDMEPQLAEMIKQ FQSTVETWDQCEKKIKELKSRLQVLKAQSEDPLPELHEDLHNEK ELIKELEQSLASWTQNLKELQTMKADLTRHVLVEDVMVLKEQIE HLHRQWEDLCLRVAIRKQEIEDRLNTWVVFNEKNKELCAWLVQM ENKVLQTADISIEEMIEKLQKDCMEEINLFSENKLQLKQMGDQL IKASNKSRAAEIDDKLNKINDRWQHLFDVIGSRVKKLKETFAFI QQLDKNMSNLRTWLARIESELSKPVVYDVCDDQEIQKRLAECQD LQRDIEQHSAGVESVFNICDVLLHDSDACANETECDSIQQTTRS LDRRWRNICAMSMERRMKIEETWRLWQKFLDDYSRFEDWLKSAE RTAACPNSSEVLYTSAKEELKRFEAFQRQIHERLTQLELINKQY RRLARENRTDTASRLKQMVHEGNQRWDNLQRRVTAVLRRLRHFT

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			NQREEFEGTRESILVWLTEMDLQLTNVEHFSESDADDKMRQLNG FQQEITLNTNKIDQLIVFGEQLIQKSEP\LDAVLIEDELEELHR YCQEVFGRVSRFHRRLTSCTPGLEDEKEASENETDMEDPREIQT DSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPVSVDS\IPLE WDHTGRRGGPSSSH\EEDEEAQYY\SALSGKSISDGHSWHVPDS PSCPEHHYKQMEGDRNVPPVPPASSTPYKPPYGKLLLPPGTDGG KEGPRVLNGNPQQEDGGLAGITEQQSGAFDRWEMIQAQEL\HNK LKIKQNLQQLNSDISAITTWLKKTEAELEMLKMAKPPSDIQEIE LRVKRLQEILKAFDTYKALVVSVNVSSKEFLQTESPESTELQSR LRQLSLLWEAAQGAVDSWRGGLRQSLMQCQDFHQLSQNLLLWLA SAKNRRQKAHVTDPKADPRALLECRRELMQLEKELVERQPQVDM LQEISNSLLIKGHGEDCIEAEEKVHVI\EKKLKQLREQVSQDLM ALQGTQNPASPLPSFDEVDSGDQPPATSVPAPRAKQFRAVRTTE GEEETESRVPGSTRPQRSFLSRVVRAALPLQLLLLLLLLLACLL PSSEEDYSCTQANNF\ARSFYPMLRYTNGPPPT
6139	52	1131	LGDWVWSRTCGVLETPTSVLRRARARGPCPTDSKWALPRLREGE TERRPWEASSWKTL/LAGWIGGAASVIVGHPLDTVKTRLQAGVG YGNTLSCIRVVYRRESMFGFFKGMSFPLASIAVYNSVVFGVFSN TQRFLSQHRCGEPEASPPRTLSDLLLASMVAGVVSVGLGGPVDL IKIRLQMQTPPVSGRQPRFEVQGSGSCG\EPAYQGPVHCITTIV RNEGLAGLYRGASAMLLRDVPGYCLYFIPYVFLSEWITPEACTG PSPCAVWLAGGMAGAISWGTATPMDVVKSRLQADGVYLNKYKGV LDCISQSYQKEGLKVFFRGITVNAVRGFPMSAAMFLGYELSLQA IRGDHAVTSP
6140	694	136	RPELELWRLRSRSWRPLGVPRRCHRRNWKEPVRAQPLSVTVWAP RCQRP/QPPAPEPSSPNAAVPEAIPTPRAAASAALELPLGPAPV SVAPQAEAEARSTPGPAGSRLGPETFRQRFRQFRYQDAAGPREA FRQLREL/SPRQWLRPDI\RTKEQ\IVEMLVQEQLLAILPEAAR ARRIRRRTDVRITG
6141	2	984	AQVGPRSRPCKMPLKLRGKKKAKSKETAGLVEGEPTGAGGGSLS ASRAPARRLVFHAQLAHGSATGRVEGFSSIQELYAQIAGAFEIS PSEILYCTLNTPKIDMERLLGGQLGLEDFIFAHVKGIEKEVNVY KSEDSLGLTITDNGVGYAFIKRIKDGGVIDSVKTICVGDHIESI NGENIVGWRHYDVAKKLKELKKEELFTMKLIEPKKAFEIELRSK AGKSSGEKIGCGRATLRLRSKGPATVEEMPSETKAK\AIEKIDD VLELYMGIRDIDLATTMFEAGKDKVNPDEFAVALDETLGDFAFP DEFVFDVWGVIGDAKRRGL
6142	116	602	EAEGEQVCGAKCCGDAPHVENREEETARIGPGVMESKEERALNN LIVENVNQENDEKDEKEQVANKGEPLALPLNVSEYCVPRGNRRR FRVRQPILQYRWDIMHRLGEPQARMREENMERIGEEVRQLMEKL REKQLSHSLRAVSTDPPHHDHHDEFC\LMP
6143	2802	270	FRMRIFLHCPWNQQMWKIWNLLETSLESCKAHLSIQKLLKER\Q \QLPVFKHRDSIVETLKRHRVVVVAGET\GSGKSTQVPHFLLED LLLNEWEASKCNIVCTQPRRISAVSLANRVCDBLGCENGPGGRN SLCGYQIRMESRACESTRLLYCTTGVLLRKLQEDGLLSNVS/HM FIVDEV\HER\SVQSDFLLIILKEILQKRSDLHLILMSATVDSE KFSTYFTHCPILRISGRSYPVEVFHLEDIIEETGFVLEKDSEYC QKFLEEEEEVTINVTSKAGGIKKYQEYIPVQTGAHADLNPFYQK YSSRTQHAILYMNPHKINLDLILELLAYLDKSPQFRNIEGAVLI FLPGLAHIQQLYDLLSNDRRFYSERYKVIALHSILSTQDQAAAF TLPPPGVRKIVLATNIAETGITIPDVVFVIDTGRTKENKYHESS QMSSLVETFVSKASALQRQGRAGRVRDGFCFRMYTRERFEGFMD YSVPEILRVPLEELCLHIMKCNLGSPEDFLSKALDPPQLQVISN AMNLLRKIGACELNEPKLTPLGGQHLAALPVNVKIGKMLIFGAIF GCLDPVATLAAVMTEKSPFTTPIGRKDEADLAKSALAMADSDHL TIYNAYLGWKKARQEGGYRSEITYCRRNFLNRTSLLTLEDVKQE

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			LIKLVKAAGFSSSTTSTSWEGNRASQTLSFQEIALLKAVLVAGL YDNVGKIIYTKSVDVTEKLACIVETAQGKAQVHPSSVNRDLQTH GWLLYQEKIRYARVYLRETTLITPFFPVLLFGGDIEVQHRERLLS IDGWIYFQAPVKIAVIFKQLRVLIDSVLRKKLENPKMSLENDKI LQIITELIKTENN
6144	1289	568	SGPGSMSGQRVDVKVVMLGKEYVGKTSLVERYVHDRFLVGPYQN VSASGGARHGGRGSGGPVICTYGPDLFPLVA\TIGAAFVAKVMS VGDRTVTLGIWDTAGSERYEAMSRIYYRGAKAAIVCYDLTDSSS FERAKFWVKELRSLEEGCQIYLCGTKSDLLEEDRRRRRVDFHDV QDYADNIKAQLFETSSKTGQSVDELFQKVAEDYVSVAAFQVMTE DKGVDLGQKPNPYFYSCCHH
6145	1109	196	GGMDLSELERDNTGRCRLSSPVPAVCRKEPCVLGVDEAGRGPVL GPMVYAICYCPLPRLADLEALKVADSKTLLESERERLFAKMEDT DFVGWALDVLSPNLISTSMLGRVKYNLNSLSHDTATGLIQYALD QGVNVTQVFVDTVGMPETYQARLQQSFPGIEVTVKAKADALYPV \VSAASICAKVARDQAVKKWQFVEKLQDLDTDYG\SGYPNDPQD /TKAWLKEHVEPVF\GFP\QFVRF\SWRTAQTI\LEKEAEDVIR EDSASENQEGLRKITSYFLNEGSQARPRSSHRYFLERGLESTTS L
6146	428	781	LKKKGKEKAEAQQVEALPGPSLDQWHRSAGEEEDGPVLTDEQKS R/YPGHEAHDQGG\WDARQSIIRKVVDPETGRTRLIKGDGEVLE EIVTKERHREINKQATRGDCLAFQMRAGLLP
6147	1	2304	GTRQLPPPSPGSGPGDSPEGPEGEAPERRRKAHGMLKLYYGLSE GEAAGRPAGPDPLDPTDLNGAHFDPEVYLDKLRRECPLAQLMDS ETDMVRQIRALDSDMQTLVYENYNKFISATDTIRKMKNDFRKME DEMDRLATNMAVITDFSARISATLQDRHERITKLAGVHALLRKL QFLFELPSRLTKCVELGAYGQAVRYQGRAQAVLQQYQHLPSFRA IQDDCQVITARLAQQLRQRFREGGSGAPEQAECVELLLALGEPA EELCEEFLAHARGRLEKELRNLEAELGPSPPAPDVLEFTDHG\S SGFVGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYFALV ERRLAQEQGGGDNSLLVRALDRFHRRLRAPGALLAAAGLADAAT EIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGP GLAELLANVASSILSHIKASLAAVHLFTAKEVSFSNKPYFRGEF CSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLLLLS RLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETA RRLLTHYVKVQGLVISQMLRKSVETRDWLSTLEPRNVRAVMKRV VEDTTAIDVQVLPRLAGVALTQAGGTVPSRGAGAAEDHWQSLPG GGDMCIWASHGASSVARASVREPQGNKSPRMNTKRAGECLCPRS CSFSAQDYDIFAPILPVEKQRLRVTQEVRAGLVLVLKIRPQTNS CILPLPHSTGSINSDHVPTK
6148	3056	353	VPAVGGTFADGAMGEAEKFHYIYSCDLDINVQLKIGSLEGKREQ KSYKAVLEDPMLKFSGLYQETCSDLYVTCQVFAEGKPLALPVRT SYKAFSTRWNWNEWLKLPVKYPDLPRNAQVALTIWDVYGPGKAV PVGGTTVSLFGKYGMFRQGMHDLKVWPNCRSQMDQKPTKTPGRT SSTLSEDQMSRLAKLTKAHRQGHMVKVDWLDRLTFREIEMINES VKRSSNFMYLMGGFRCVKCDDKEYGIVYYEKDGDESSPILTSFE LVKVPDPQMSLENLVESKHHNLPRSLRSGPSDHDLKPYPSPRDQ LKNIVSYPPSKPPTYEEQDLVWEFRYYLTNQDKALTKILTSVIW DLPQGAKQALALLGKWKPMDVEDSLELLSSHYTNPTVRRYAVAR LRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKKDSQSSVS ENVSNSGINSAEIDSSQIIT/SAPFPSVSSPPP\ASKTKEVPDG ENLEQDLCTFLISRASKNSTLANYLYWYVIVECEDQDTQQRDPK THEMYLNVMRRFSQALLKGDKSVRVMRSLLAAQQTFVDRLVHLM KAVQRESGNRKKKNERLQALLGDNEKMNLSDVELIPLPLEPQVK IRGIIPETATLFKSALMPAQLFFKTEDGGKYPVIFKHGDDLRQD QLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSV

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			PVAEVLDTEGSIQNFFRKYAPSENGPNGISAEVMDTYVKSCAGY CVITYILGVGDRHLDNLLLTKTGKLFHIDFGYILGRDPKPLPPP MKLNKEMVEGMGGTQSEQYQEFRKQCYTAFLHLRRYSNLILNLF SLMVDANIPDIALEPDKTVKKVQDKFRLDLSDEBAVHYMQSLID ESVHALFAAVVEQIHKFAQYWRK
6149	1	1413	RVDPRVRENGTANPIKNGKTSPASKDQRTGKKTSVQGQVQKGND ESESDFESDPPSPKSSEEEEQDDEEVLQGEQGDFNDDDTEPENL GHRPLLMDSEDEEEEEKHSSDSDYEQAKAKYSDMSSVYRDRSGS GPTQDLNTILLTSAQLSSDVAVETPKQEFDVFGAVPFFAVRAQQ PQQEKNEKNLPQHRFPAAGLEQEEFDVFTKAPFSKKVNVQECHA VGPEAHTIPGYPKSVDVFGSTPFQPFLTSTSKSESNEDLFGLVP FDEITGSQQQKVKQRSLQKLSSRQRRTKQDMSKSNGKRHHGTPT STKKTLKPTYRTPERARRHKKVGRRDSQSSNEFLTISDSKENIS VALTDGKDRGNVLQPEESLLDPFGAKPFHSPD\LSWHPP\HQGL S\DIRADHNT\VLPGR\PRQNSLHGSFHSADVLKMDDFGAVP/F LTELVVQSITPHQSQQSQPV\ELDPFGAAPFPSKQ
6150	372	37	MSNIKKYIIDYDWKASIEIEIDHDVMTEEKLHQINNFWSDSEYR LNKHGSVLNAVLIMLAQHALLIAISSDLNAYGVVCEFDWNDGNG QEGWPPMDGSEGIRITDIDTSGIF
6151	1555	521	DSNQQSVSGTAASTLLHSFKATIYYQGTGHVQQFYGVTSPYSQT TPPIVQSYAQPSLQYIQGQQIFTAHPQGVVVQPAAAVTTIVAPG QPQPLQPSEMVVTNNLLDLPPPSPPKPKTIVLPPNWKTARDPEG KIYYYHVITRQTQWDPPTWESPGDDASLEHEAEMDLGTPTYDEN PMK\ASKKPKTAEADTSSELAKKSKEVFRKEMSQFIVQCLNPYR KPDCKVG\RITTTEDFKHLARKLTHGVMNKELKYCKNPE\DLEC NENVKHKTKEYIKKYMQKFGAVYKPKEDTEFRVTVGPGWEDGWS GKTDSRERKSCGPFCSTPVSTVLLMIHHPGEFNPADVN
6152	1366	648	NRTWSTPSTWMGVALPPLCSTGPWPVTRQITARTTCGAVPAKCP PWC/DVHEPRCQPPDCHGHGTCVDGHCQCTGHFWRGPGCDELDC GPSNCSQHGLCTETGCRCDAGWTGSNCSEECPLGWHGPGCQRPC KCEHHCPCDPKTGNCSVSRVKQCLQPPEATLRAGELSFFTRTAW LALTLALAFLLLISTAANLSLLLSRAERNRRLHGDYAYHPLQEM NGEPLAAEKEQPGGAHNPFKD
6153	2	3368	GRVGARSPGRAYALLLLLICFNVGSGLHLQVLSTRNENKLLPKH PHILVRQKRAWITAPVALLEGEDLSKKNPIAKIHSDLAEERGLKI TYKYTGKGITEPPFGIFVFNKDTGELNVTSILDREETPFFLLTG YALDARGNNVEKPLELRIKVLDINDNEPVFTQDVFVGSVEELSA AHTLVMKINATDADEPNTLNSKISYRIVSLEPAYPPVFYLNKDT GEIYTTSVTLDREEHSSYTLTVEARDGNGEVTDKPVKQAQVQIR ILDVNDNIPVVENKVLEGMVEENQVNVEVTRIKVFDADEIGSDN WLANFTFASGNEGGYFHIETDAQTNEGIVTLIKEVDYEEMKNLD FSVIVANKAAFHKSIRSKYKPTPIPIKVKVKNVKEGIHFKSSVI SIYVSESMDRSSKGQIIGNFQAFDEDTGLPAHARYVKLEDRDNW ISVDSVTSEIKLAKLPDFESRYVQNGTYTVKIVAISEDYPRKTI TGTVLINVEDINDNCPTLIEPVQTICHDAEYVNVTAEDLDGHPN SGPFSFSVIDKPPGMAEKWKIARQESTSVLLQQSEKKLGRSEIQ FLISDNQGFSCPEKQVLTLTVCEVLHGS\GCREAQHDSYVGLGP AAIALMILAFLLLLLVPLLLLMCHCGKGAKGFTPIPGTIEMLHP WNNEGAPPEDKVVPSFLPVDQGGSLVGRNGVGGMAKEATMKGSS SASIVKGQHEMSEMDGRWEEHRSLLSGRATQFTGATGAI\MTTE TTITARATGASRDVAGAQAAAVALNEEFLKNYFTDKAASYTEED ENHTAKDCLLVYSQEETESLNASIGCCSFIEGELDDRFLDDLGL KFKTLAEVCLGQKIDINKEIEQRQKPATETSMNTASHSLCEQTM VNSENTYSSGSSFPVPKSLQEANAEKVTQEIVTERSVSSRQAQK VATPLPDPMASRNVIATETSYVTGSTMPPTTVILGPSQPQSLIV TERVYAPASTLVDQPYANEGTVVVTERVIQPHGGGSNPLEGTQH

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			LQDVPYVMVRERESFLAPSSGVQPTLAMPNIAVGQNVTVTERVL APASTLQSSYQIPTENSMTARNTTVSGAGVPGPLPDFGLEESGH SNSTITTSSTRVTKHSTVQHSYS
6154	3660	2146	KKKTKMKNTLQKTVNFGAWPKPTISDKSHLLQMVSKLDLTDAKN SDTAHIKSIBITSILNGLQASESSAEDSEQBDERGAQDMDNNGK BESKIDHLTNNRNDLISKEEQNSSSLLEENKVHADLVISKPVSK SPERLRKDIEVLSEDTDYEEDEVTKKRKDVKKDTTDKSSKPQIK RGKRRYCNTBECLKTGSPGKKEEKAKNKESLCMENSSNSSSDED EEETKAKMTPTKKYNGLEEKRKSLRTTGFYSGFSEVAEKRIKLL NNSDERLQNSRAKDRKDVWSSICGQWPKKTLKELFSDSDTEAAA SPPHPAPEBGVAEESLQTVAEEESCSPSVELEKPPPVNVDSKPI EEKTVEVNDRKAEFPSSGSNFSA*IPLPYLHLNRLHQSL*QKGS RQQSSVTVSEPLAPNQEEVRSIKSETDSTIBVDSVAGELQDLQS ERE*LASRF*CQCELEQ**SARTRTS*KSLYRSEKSERCSGRRK FIKKAEKKP*SNSGKQQKEGK
6155	869	121	HLLPELRGKSWITMKYVFYLGVLAGTFFFADSSVQKEDPAPYLV YLKSHFNPCVGVLIKPSWVLAPAHCYLPNLKVMLGNFKSRVRDG TEQTINPIQIVRYWNYSHSAPQDDLMLIKLAKPAMLNPKVQALN P\PTTNVRPGTVCLLSGLDWSQENSGRHPDLRQNLEAPVMSDRE CQKTEQGKSHRNSLCVKFVKVFSRIFGEVAVATVICKDKLQGIE VGHFMGGDVGIYTNVYKYVSWIENTAKDK
6156	5725	3984	GTSTVTMATKKHFSIILNLLGMLLKKDNQDTRKLLMTWALEVAV VMKKSETYAPLFCLPSFHKFCKGLLADTLVEDVNICLQACSSLH ALSSSLPDDLLQRCVDVCRVQLVHRGTCIRQAFGKLLKSIPLGV FLSNNNHTEIQEISLALRSHMSKAPSNTFHPQDFSD/VISFILY GNSHRTGKDNWLERLFYSCQRLDKRDQSTIPRNLLKTDAVLWQW AIWEAAQPTVLSKLRTPLGRAQDTFQTIEGIIRSLAGHTLNPDQ DVSQWTTADNDEGHGNNQLRLVLLLQYLENLEKLMYNAYEGCAN ALTSPPKVIRTFLYTNRQTCQDWLTRIRLSIMRVGLLAGQPAVT VRHGFDLLTEMKTTSLSQGNELEVSIMMVVEALCELHCPEAIQG IAVWSSSIVGKHLLWINSVAQQAEGRFEKASVEYQEHLCAMTGV DCCISSFDKSVLTLASAGCKSASLKHCLNGESRKSVLSKPTDSS PEVINYLGNKACECYISTADWAAVQEWQNAIHDLKKSTSSTSLN LKADFNYIKSLSSFESGKFVECTEQLELLPGENINLLAGGSKEK IDMKKLLRNM
6157	946	329	MANRGPSYGLSREVQEKIEQKYDADLENKLVDWIILQCAEDIEH PPPGRAHFQKWLMDGTVLCKLINSLYPPGQEPIPKISESKMAFK QMEQISQFLKAAETYGVRTTDIFQTVDLWEGKDMAAVQRTLMAL GSVAVTKDDGCYRGEPSWFHRKAQQNRRGFSEEQLRQGQNVIGL QMGSNKGASQAGMTGYGMPRQIM*DAASCP
6158	441	1482	LGSLIVLSLHCKVIFSSQSLERAMKEKAVDLVPILAQNPGLAQN PILEGKDHNQNTGVDPIIDHVQDRKTD/SRSKSPHKKRSKSRER RKSRSRSHSRDKRKDTREKIKEKERVKEKDREKEREREKEREKE KERGKNKDRDKEREKDREKDKEKDREBREREKEHEKDRDKEKEKE QDKEKEREKDRSKEIDEKRKKDKKSRTPPRSYNASRRSRSSSRE RRRRRSRSSSRSPRTSKTIKRKSSSRSPSPRSRNKKDKKREKERD HISERRERERSTSMRKSSNDRDGKEKLEKNSTSLKEKEHNKEPD SSVSKEVDDKDAPRTEENKIQHNGNCQLNEENLSTKTEAV
6159	53	84	AVIAPLHISLGDRARPYLKNTEKSSTTCSRRRNQSFPPVMSLTH RLHLCKYWGCAVSNVCRFWEGRPLPLMIVVPYTLPVSLPVGSCV IITGTPILTFVKDPQLEVNFYTGMDEDSDIAFQFRLHFGHPAIM NSCVFGIWRYEEKCYYLPFEDGKPFBLCIYVRHKEYKVMVNGQR IYNFAHRFPPASVKMLQVFRDISLTRVLISD*GRCVRITAVQEF DVSVSCDCTTAYQPG
6160	1626	1790	AGAKFFP*F*KVADAQPTESEKEIYNQVNVVLKDAEGILEDLQS YRGAGHEIREAIQHPADEKLQEKAWGAVVPLVGKLKKFYEFSQR

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			LEAALRGLLGALTSTPYSPTQHLEREQALAKQFAEILHFTLRFD ELKMTNPAIQNDFSYYRRTLSRMRINNVPAEGENEVNNELANRM SLFYAEATPMLKTLSDATTKFVSENKNLPIENTTDCLSTMASVC RVMLETPEYRSRFTNEETVSFCLRVMVGVIILYDHVHPVGAFAK TSKIDMKGCIKVLKDQPPNSVEGLLNALRYTTKHLNDETTSKQI KSMLQ*QLLTLVNKG
6161	455	1569	PVSGSESSLRRAWASILRLMLGPRVAVSILCEDGISH*LLEKH* KSHVLEPLSSLALEEQCLALSLDWSTGKTGRAGDQPLKIISSDS TGQLHLLMVNETRPRLQKVASWQAHQFEAWIAAFNYWHPEIVYS GGDDGLLRGWDTRVPGKFLFTSKRHTMGVCSIQSSPHREHILAT GSYDEHILLWDTRNMKQPLADTPVQGGVWRIKWHPFHHHLLLAA CMHSGFKILNCQKAMEERQEATVLTSHTLPDSLVYGADWSWLLF RSLQRAPSWSFPSNLGTKTADLKGASELPTPCHECREDNDGEGH ARPQSGMKPLTEGMRKNGTWLQATAATTRDCGVNPEEADSAFSL LATCSFYDHALHLWEWEGN
6162	1	586	RTIHATGRAGASPMHRLIVWRLAEANKQHVRCQKCLEFGHWTYE CTGKRKYLHRPSRTAELKKALKEKENRLLLQQSIGETNVERKAK KKRSKSVTSSSSSSSDSSASDSSSESEETSTSSSSSEDSDTDESS SSSSSSASSTTSSSSSDSDSDSSSSKQ*HQHR*QL*R*TTKEE EKEIELLHSYWTDGLKTLM
6163	1081	785	RIRSTTEGCAVRLHPTQNTGKARIMILLSVSLGRHWAFTYKFFL TPVVFVFFFFFFHRKE*VMQKNFMKSREDEWMEKLNNLHVQRAD MNRLIMNYLVTEGFKEAAEKFRMESGIEPSVDLETLDERIKIRE MILKGQIQEAIALINSLHPELLDTNRYLYFHLQQQHLIBLIRQR ETEAALEFAQTQLAEQGEESRECLTEMERTLALLAFDSPEESPF GDLLHTMQRQKVWSEVNQAVLDYENRESTPKLAKLLKLLLWAQN ELDQKKVKYPKMTDLSKGVIEEPK
6164	90	406	PCQSPGRSRMRQDKLTGSLRRGGRCLKRQGGGVGTILSNVLKKR SCISRTAPRLLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALKA VARLSTGIPKEWRRKVWLTLADHYLHSIAIDWDKTMRFTFNERS NPDDDSMGIQIVKDLHRTGCSSYCGQEAEQDRVVLKRVLLAYAR WNKTVGYCQGFNILAALILEVMEGNEGDALKIMIYLIDKVLPES YFVNNLRALSVDMAVFRDLLRMKLPELSQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAPFPFPQLAELREKYTYNITPFPATVKPTSVSGRHS KARDSDEENDPDDEDAVVNAVGCLGPFSGFLAPELQKYQKQIKE PNEEQSLRSNNIAELSPGAINSCRSEYHAAFNSMMMERMTTDIN ALKRQYSRIKKKQQQQVHQVYIRADKGPVTSILPSQVNSSPVIN HLLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVPYEDLKTKLNS PWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAA EAFPSGCTATAGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSA VQAKLGALELNQRDAAAETELRVHPPCQRHCPEPPSAPEENKAT SKAPQGSNSKTPIFSPFPSVKPLRKSATARNLGLYGPTERTPTV HFPQMSRSFSKPGGGNSGP*KMVFSSGTMLSRQLPGYPQEYQRN GGERFG
6165	90	406	PCQSPGRSRMRQDKLTGSLRRGGRCLKRQGGGVGTILSNVLKKR SCISRTAPRLLCTLEPGVDTKLKFTLEPSLGQNGFQQWYDALKA VARLSTGIPKEWRRKVWLTLADHYLHSIAIDWDKTMRFTFNERS NPDDDSMGIQIVKDLHRTGCSSYCGQEAEQDRVVLKRVLLAYAR WNKTVGYCQGFNILAALILEVMEGNEGDALKIMIYLIDKVLPES YFVNNLRALSVDMAVFRDLLRMKLPELSQHLDTLQRTANKESGG GYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFFEGSEIIL RVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHE LMQTVYSMAPFPFPQLAELREKYTYNITPFPATVKPTSVSGRHS KARDSDEENDPDDEDAVVNAVGCLGPFSGFLAPELQKYQKQIKE

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			PNEEQSLRSNNIAELSPGAINSCRSEYHAAFNSMMMERMTTDIN ALKRQYSRIKKKQQQQVHQVYIRADKGPVTSILPSQVNSSPVIN HLLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVPYEDLKTKLNS PWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAA EAFPSGCTATAGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSA VQAKLGALELNQRDAAAETELRVHPPCQRHCPEPPSAPEENKAT SKAPQGSNSKTPIFSPFPSVKPLRKSATARNLGLYGPTERTPTV HFPQMSRSFSKPGGGNSGP*KMVFSSGTMLSRQLPGYPQEYQRN GGERFG
6166	2	1206	HKLWRTVAMAGAEWKSLEECLEKHLPLPDLQEVKRVLYGKELRK LDLPREAFEAASREDFELQGYAFEAAEEQLRRPRIVHVGLVQNR IPLPANAPVAEQVSALHRRIKAIVEVAAMCGVNIICFQEAWTMP FAFCTREKLPWTEFAESAEDGPTTRFCQKLAKNHDMVVVSPILE RDSEHGDVLWNTAVVISNSGAVLGKTRKNHIPRVGDFNESTYYM EGNLGHPVFQTQFGRIAVNICYGRHHPLNWLMYSINGAEIIFNP SATIGALSESLWPIEARNAAIANHCFTCAINRVGTEHFPNEFTS GDGKKAHQDFGYFYGSSYVAAPDSSRTPGLSRSRDGLLVAKLDL NLCQQVNDVWNFKMTGRYEMYARELAEAVKSNYSPTIVKE*PAS VPALG
6167	1220	1844	YGIVTGPSLCAGDKQPKKQEKNPVLVSPEFVDEALCACEEYLSN LAHMDIDKDLEAPLYLTPEGWSLFLQRYYQVVHEGAELRHLDTQ VQRCEDILQQLQAVVPQIDMEGDRNIWIVKPGAKSRGRGIMCMD HLEEMLKLVNGNPVVMKDGKWVVQKYIERPLLIFGTKFDLRQWF LVTDWNPLTVWFYRDSYIRFSTQPFSLKNLDK*APLYLTPEGWS LFLQRYYQVVHEGAELRHLDTQVQRCEDILQQLQAVVPQIDMEG DRNIWIVKPGAKSRGRGIMCMDHLEEMLKLVNGNPVVMKDGKWV VQKYIERPLLIFGTKFDLRQWFLVTDWNPLTVWFYRDSYIRFST QPFSLKNLDK
6168	84	1392	VWPVPSVSAMPPKKQAQAGGSKKAEQKKKEKIIEDKTFGLKNKK GAKQQKFIKAVTHQVKFGQQNPRQVAQSEAEKKLKKDDKKKELQ ELNELFKPVVAAQKISKGADPKSVVCAFFKQGQCTKGDKCKFSH DLTLERKCEKRSVYIDARDEELEKDTMDNWDEKKLEEVVNKKHG EAEKKKPKTQIVCKHFLEAIENNKYGWFWVCPGGGDICMYRHAL PPGFVLKKKKKKKKKKEDEISL*DLIERERSALGPNVTKITLESF LAWKKRKRQEKIDKLEQDMERRKADFKAGKALVISGREVFEFRP ELVNDDDEEADDTRYTQGTGGDEVDDSVSVNDIDLSLYIPRDVD ETGITVASLERFSTYTSDKDENKLSEASGGRAENGERSDLEEDN EREGTENGAIDAVPVDENLFTGEDLDELEEELNTLDLEE
6169	112	662	APAAAMAERPEDLNLPNAVITRIIKEALPDGVNISKEARSAISR AASVFVLYATSCANNFAMKGKRKTLNASDVLSAMEEMEFQRFVT PLKEALEAYRREQKGKKEASEQKKKDKDKKTDSEEQDKSRDEDN DEDEERLEEEEQNEEEEVDN*KGRETVAPWKVPLEMRRATCFCE AFPCWAE
6170	62	667	STKVMLPNTGRLAGCTVFITGASRGIGKAIALKAAKDGANIVIA AKTAQPHPKLLGTIYTAAEEIEAVGGKALPCIVDVRDEQQISAA VEKAIKKFGGIDILVNNASAISLTNTLDTPTKRLDLMMNVNTRG TYLASKACIPYLKKSKVAHIPNISPPLNLNPVWFKQHCGRW*VV G*GDGLCLICFELNLCMSDVITICT
6171	382	941	HFMQSDVELDCDIEPCGHTKFPPTLPLSTTVIVCSCHPVATAST MAEAFSKTTSEEDQSIQEPKEANSMTAQKQKK*GLRGSRRRHAN SGGDIFGDSFAAYFPRVLKQVHQALSLSQEAVSVMDSMVRDILD RIATEAGHLAHYSKCVTITSRDIRMAVCLLLPGKMGKLAESQGT NATLRYTKSK
6172	651	54	GLCRAGGAHRFSRTHVEAALKMLRREARLRREYLYRKAREEAQR SAQERKERLRRALEENRLIPTELRREALALQGSLEFDDAGGEGV TSHVDDEYRWAGVEDPKVMITTSRDPSSRLKMFAKELKLVFFGA

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			QRMNRGRHEVGALVRACKANGVTDLLVVHEHRGTPVGLIVSHLP FGPTAYFTLCNVVMRHDIPDLGTMSEAKPHLITHGFSSRLGKRV SDILRYLFPVPKDDSHRVITFANQDDYISFRHHVVYKKTDHRNVE LTEVGPRFELKLYMIRLGTLEQEATADVEWRWHPYTNTARKRVF LSTE*AAPRPLGQLL
6173	3	288	SVDHREVQVLSQSMPLTPHQAVLRGERPYMCVECGKCFGRSSHL LQHQRIHTGEKPYVCSVCGKAFSQSSVLSKHRTIHTGEKPYECN ECGKAFRVSSDLAQHHKIHTGEKPHECLECRKAFTQLSHLIQHQ RIHTGERPYVCPLCGKAFNHSTVLRSHQRVHTGEKPHRCNECGK TFSVKRTLLQHQRIHTGEKPYTCSECCKAFSDRSVLIQHHNVHT GEKPYECSECGKTFSHRSTLMNHERIHTEEKPYACYECGKAFVQ HSHLIQHQKVHRKL*PTCVLSVGSALAGVPTSFSISVSTLERSP MCAVYVGRPSARAQSLVNTGQFTQVRSPMSVMSVEKPLE
6174	1060	959	PRPPGKRWMVAGLGNPGLPGTRHSVGMAVLGQLARRLGVAESWT RDRHCAADLALAPLGDAQLVLLRPRRLMNANGRSVARAAELFGL TAEEVYLVHDELDKPLGRLALKLGGSARGHNGVRSCISCLNSNA MPRLRVGIGRPAHPEAVQAHVLGCFSPAEQELLPLLLDRATDLI LDHIRERSQGPSLGP*H*WFSKKA
6175	2204	334	RYFRADPRSRSGQPRAEGLGAFAEGPLRAMAAPVKGNRKQSTEG DALDPPASPKPAGKQNGIQNPISLEDSPEAGGEREEEQEREEEQ AFLVSLYKFMKERHTPIERVPHLGFKQINLWKIYKAVEKLGAYE LVTGRRLWKNVYNELGGSPGSTSGATCTRRHY*RLVLPYVRHLK GEDDKPLPTSKPRKQYKMAKENRGDDGATERPKKAKEERRMDQM MPGKTKADAADPAPLPSQEPPRNSTEQQGLASGSSVSFVGASGC PEAYKRLLSSFYCKGTHGIMSPLAKKKLLAQVSKVEALQCQEEG CRHGAEPQASPAVHLPESPQSPKGLTENSRHRLTPQEGLQAPGG SLREEAQAGPCPAAPIFKGCFYTHPTEVLKPVSQHPRDFFSRLK DGVLLGPPGKEGLSVKEPQLVWGGDANRPSAFHKGGSRKGILYP KPKACWVSPMAKVPAESPTLPPTFPSSPGLGSKRSLEEEGAAHS GKRLRAVSPFLKEADAKKCGAKPAGSGLVSCLLGPALGPVPPEA YRGTMLHCPLNFTGTPGPLKGQAALPFSPLVIPAFPAHFLATAG PSPMAAGLMHFPPTSFDSALRHRLCPASSAWHAPPVTTYAAPHF FHLNTKL
6176	1040	402	PLSALRAMAEVHVIGQIIGASGFSESSLFCKWGIHTGAAWKLLS GVREGQTQVDTPQIGDMAYWSHPIDLHFATKGLQGWPRLHFQVW SQDSFGRCQLAGYGFCHVPSSPGTHQLACPTWRPLGSWREQLAR AFVGGGPQLLHGDTIYSGADRYRLHTAAGGTVHLEIGLLLRNFD RYGVEC*GTLPPTSPPSTPRTPSDGGGWHSGQEHRL
6177	1400	992	VPIESLVGKVHNFPLIAFYCCEKGKRQPHKSLHDRCFGEALDPN CSHCYLDQIKRSDFLGFSGYSPHFVAISTNSEHKMQPSSMQQAL PSQ*PYWTDPRPALVPCCSHRPDVHRSRPGPGLPGTSGCSDRPP VCPI
6178	1027	254	STQRGGIKGVARAASLVGRRRAGTGMALLLCLVCLTAALAHGCL HCHSNFSKKFSFYRHHVNFKSWWVGDIPVSGALLTDWSDDTMKE LHLAIPAKITREKLDQVATAVYQMMDQLYQGKMYFPGYFPNELR NIFREQVHLIQNAIIESRIDCQHRCGIFQYETISCNNCTDSHVA CFGYNCESSAQWKSAVQGLLNYINNWHKQDTSMRPRSSAFSWPG THRAAPAFLVLPALRCLEPPHLANLSLEDAA*CLKQH
6179	806	276	RGETREMAGNLLSGAGRRLWDWVPLACRSFSLGVPRLIGIRLTL PPPKVVDRWNEKRAMFGVYDNIGILGNFEKHPKELIRGPIWLRG WKGNELQRCIRKRKMVGSRMFADDLHNLNKRIRYLYKHFNRHGK FR*KRKLRTSEKAHLSPWRRETVLFPVRKRLCIFSVIKWGFFGI
6180	156	1833	DHHILKAASTTHVCARGNIFAIPNTRCLEC*ATATPSSSLECQN* SHLSLCPLPATTSGLTPNSMIPEKERQNIAERLLRVMCADLGAL SVVSGKEFLKLAQTLVDSGARYGAFSVTEILGNFNTLALKHLPR MYNQVKVKVTCALGSNACLGIGVTCHSQSVGPDSCYILTAYQAE

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			GNHIKSYVLGVKGADIRDSGDLVHHWVQNVLSEFVMSEIRTVYV TDCRVSTSAFSKAGMCLRCSACALNSVVQSVLSKRTLQARSMHE VIELLNVCEDLAGSTGLAKETFGSLEETSPPPCWNSVTDSLLLV HERYEQICEFYSRAKKMNLIQSLNKHLLSNLAAILTPVKQAVIE LSNESQPTLQLVLPTYVRLEKLFTAKANDAGTVSKLCHLFLEAL KENFKVHPAHKVAMILDPQQKLRPVPPYQHEEIIGKVCELINEV KESWAEEADFEPAAKKPRSAAVENPAAQEDDRLGKNEVYDYLQE PLFQATPDLFQYWSCVTQKHTKLAKLAFWLLAVPAVGARSGCVN MCEQALLIKRRRLLSPEDMNKLMFLKSNML
6181	169	1032	TRTLLSPVLLPGPRWKPWRRRPMGPLALPAWLQFRYRKNAYLFI YYLIQFCGHSWIFTNMTVRFFSFGKDSMVDTFYAIGLVMRLCQS VSLLELLHIYVGIESNHLLPRFLQLTERIIILFVVITSQEEVQE KYVVCVLFVFWNLLDMVRYTYSMLSVIGISYAVLTWLSQTLWMP IYPLCVLAEAFAIYQSLPYFESFGTYSTKLPFDLSIYFPYVLKI YLMMLFIGMYFTYSHLYSERRDILGIFPIKKKKM*STAFQCDTR KDRLWIQCSK*NTGSILVEKFLVF
6182	1769	1224	AS*IDYQLNTLLKEFQLTEENTKLRYLTCSLIEDMAAAYFPDCI VRPFGSSVNTFGKLGCDLDMFLDLDETRNLSAHKISGNFLMEFQ VKNVPSERIATQKILSVLGECLDHFGPGCVGVQKILNARCPLVR FSHQASGFQCDLTTNNRIALTSSELLYIYGALDSRVRALVFSVR CWARAHSLTSSIPGAWITNFSLTMMVIFFLQRRSPPILPTLDSL KTLADAEDKCVIEGNNCTFVRDLSRIKPSQNTETLELLLKEFFE YFGNFAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNV SQSQLQKFVDLARESAWILQQEDTDRPSISSNRPWGLVSLLLPS APNRKSFTKKKSNKFAIETVKNLLESLKGNRTENFTKTSGKRTI STQT
6183	1118	452	HLDRYIKSPGSGSSTPAPPSHLLLYLLHPQSTRTMGCCGCSRGC GSGCGGCGSSCGGCGSGCGGCGSGRGGCGSGCGGCSSSCGGCGS RCYVPVCCCKPVCSWVPACSCTSCGSCGGSKGGCGSCGGSKGGC GSCGCSQSSCCKPCCCSSGCGSSCCQSSCCKPCCCQSSCCVPVC CQSSCCKPCCCQSNCCVPVCCQCKI*GSGPRPSGFSCLVKAFLM VP
6184	1	2191	IVTVREEDGAPAVAPPGVVVSRANKRSGAGPGGSGGGGARGAEE EPPPPLQAVLVADSFDRRFFPISKDQPRVLLPLANVALIDYTLE FLTATGVQETFVFCCWKAAQIKEHLLKSKWCRPTSLNVVRIITS ELYRSLGDVLRDVDAKALVRSDFLLVYGDVISNINITRALEEHR LRRKL*KNVSVMTMIFKESSPSHPTRCHEDNVVVAVDSTTNRVL HFQKTQGLRRFAFPLSLFQGSSDGVEVRYDLLDCHISICSPQVA QLFTDNFDYQTRDDFVRGLLVNEEILGNQIHMHVTAKEYGARVS NLHMYSAVCADVIRRWVYPLTPEANFTDSTTQSCTHSRHNIYRG PEVSLGHGSILEENVLLGSGTVIGSNCFITNSVIGPGCHIEPGD NVVLDQTYLWQGVRVAAGAQIHQSLLCDNAEVKERVTLKPRSVL TSQVVVGPNITLPEGSVISLHPPDAEEDEDDGEFSDDSGADQEK DKVKMKGYNPAEVGAAGKGYLWKAAGMNMEEEEELQQNLWGLKI NMEEESESESEQSMDSEEPDSRGGSPQMDDIKVFQNEVLGTLQR GKEENISCDNLVLEINSLKYAYNISLKEVMQVLSHVVLEFPLQQ MDSPLDSSRYCALLLPLLKAWSPVFRNYIKRAADHLEALAAIED FFLEHEALGISMAKVLMAFYQLEILAEETILSWFSQRDTTDKGQ QLRKNQQLQRFIQWLKEABEESSEDD
6185	791	44	PCTSCVLWATLHLPASTRKAPQAECGMISITEWQKIGVGITGFG IFFILEFGTLLYFDSVLLAFGNLLFLTGLSLIIGLRKTFWFFQR HKLKGTSFLLGGVVIVLLRWPLLGMFLETYGFFSLFKGFFPVAF GFLGNVCNIPFLGALFRRLQGTSSMV*KTEMSSLNLDHWLKGAK REEWEPPPQSPALTHSPTYPGPPQVQKERNGAEQLTSNPQVDSR GCQEAEMQTPRRLGWGWYHTLTLYLWEEK
6186	569	238	VYGIDSSNTNTHGAEERNRKLKKHWKLCHAQSRLDVNGLALKMA

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			KERKVKNKVRNKADTEEVFNNSPTNQEKMPTSAILPDFSGSVIS NIRNQMETLHSQPHQEENLCFENSFSLINLLPINAVEPTSSQQI PNRETSEANKERRKMTSKSSESNIYSPLTSFITADSELHDIIKD LEDCLMVGLHTCGDLAPNTLRIFTSNSEIKGVCSVGCCYHLLSE EFENQHKERTQEKWGFPMCHYLKEERWCCGRNARMSACLALERV AAGQGLPTESLFYRAVLQDIIKDCYGITKCDRHVGKIYSKCSSF LDYVRRSLKKLGLDESKLPEKIIMNYYEKYKPRMNELEAFKMLK VVLAPCIETLILLDRLCYLKEQEDIAWSALVKLFDPVKSPRCYA VIALKKQQ*FPLKQIIRCISL*DSAGCAEEVSVGDGGPALRDAP PSGSRVGSRYD
6187	1701	771	DAWGPETRLARILNPDSFIEPRPGRLPELEATRPHMEPXASCPA AAPLMERKFHVLVGVTGSVAALKLPLLVSKLLDIPGLEVAVVTT ERAKHFYSPQDIPVTLYSDADEWEMWKSRSDPVLHIDLRRWADL LLVAPLDANTLGKVASGICDNLLTCVMRAWDRSKPLLFCPAMNT AMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVG TIVDKVKEVLFQHSGFQQS*PGISVMGVPLYSEWVQAKSVKMDV GKIGGYPHLLNGGPALSLPRGQACSRLNWTEGPGLSFFQPGEAA A
6188	238	1534	KGFVNAGPLMAELQVSPQWKAPEMSQICLSCGHPSA*GPRWASW NIGVFICIRCAGIHRNLGVHISRVKSVNLDQWTQEQIQCMQEMG NGKANRLYEAYLPETFRRPQIDPAVEGFIRDKYEKKKYMDRSLD INAFRKEKDDKWKRGSEPVPEKKLEPVVFEKVKMPQKKEDPQLP RKSSPKSTAPVMDLLGLDAPVACSIANSKTSNTLEKDLDLLASV PSPSSSGSRKVVGSMPTAGSAGSVPENLNLFPEPGSKSEEIGKK QLSKDSILSLYGSQTPQMPTQAMFMAPAQMAYPTAYPSFPGVTP PNSIMGSMMPPPVGMVAQPGASGMVAPMAMPAGYMGGMQASMMG VPNGMMTTQQAGYMAGMAAMPQTVYGVQPAQQLQWNLTQMTQQM AGMNFYGANGMMNYGQSMSGGNEQAANQTLSPQMWK
6189	1297	793	LGEPLGDLCELIPGDVQQLQMGEVHPGTGAQGSAAQSVAGEVQL TQLSHARQRPSCQGSQLIALDLQHMDISRQPRWQHVQPVARQVQ RAQQAQLAEGVAVHLWAGDAVVAEVELLQEVGGGKVFAANACDL VVQDHEGAHAARQATGHALQRVIVQVRRVQPLEAL*RVPSGLPR RVRAFMILHNQITGIGREDFATTYFLEELNLSYNRITSPQVHRD AFRKLRLLRSLDLSGNRLHMLPPGLPRNVHVLKVKRNELAALAR GALAGMAQLRELYLTSNRLRSRALGPRAWVDLAHLQLLDIAGNQ LTEIPEGLPESLEYLYLQNNKISAVPANAFDSTPNLKGIFLRFN KLAVGSVVDSAFRRLKHLQVLDIEGNLEFGDISKDRGRLGKEKE EEEEDEVEEETR
6190	66	1309	ILVGNVSFLLSFAEYVCNCSVVGSLNVNRCNQTTGQCECRPGYQ GLHCETCKEGFYLNYTSGLCQPCDCSPHGALSIPCNSSGKCQCK VGVIGSICDRCQDGYYGFSKNGCLPCQCNNRSASCDALTGACLN CQENSKGNHCEECKEGFYQSPDATKECLRCPCSAVTSTGSCSIK SSELEPECDQCKDGYIGPNCNKCENGYYNFDSICRKCQCHGHVY PVKTPKICKPESGECINCLHNTTGFWCENCL*GYVHDLEGNCIK KVILPTPEGSTILVSNASLTTSVPTPVINSTFTPTTLQTIFSVS TSENSTSALADVSWTQFNIIILTVIIIVVVLLMGFVGAVYMRE YQNRKLNAPFWTIELKEDNISFSSYHDSIPNADVSGLLEDDGNE VAPNGQLTLTTPIHNYKA
6191	1212	1511	VNLCHGGLLHLSTHHLGIKPSMH*LFFLMLSFPHLTPQQPKCPS MIDWIKKIWYIYTMEYYATIKRNEIMFFAGTWMEMEAIILSKLM QDYMFSLISGS
6192	3	950	TRGCGNKMAGKKNVLSSLAVYAEDSEPESDGEAGIEAVGSAAEE KGGLVSDAYGEDDFSRLGGDEDGYEEEEDENSRQSEDDDSETEK PEADDPKDNTEAEKRDPQELVASFSERVRNMSPDEIKIPPEPPG RCSNHLQDKIQKLYERKIKEGMDMNYIIQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSEDSYYEALAKAQKIEMDKLEK

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			AKKERTKIEFVTGTKKGTTTNATSTTTTTASTAVADAQKRKSKW DSAIPVTTIAQPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6193	3	950	TRGCGNKMAGKKNVLSSLAVYAEDSEPESDGEAGIEAVGSAAEE KGGLVSDAYGEDDFSRLGGDEDGYEEEEDENSRQSEDDDSETEK PEADDPKDNTEAEKRDPQELVASFSERVRNMSPDEIKIPPEPPG RCSNHLQDKIQKLYERKIKEGMDMNYIIQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSEDSYYEALAKAQKIEMDKLEK AKKERTKIEFVTGTKKGTTTNATSTTTTTASTAVADAQKRKSKW DSAIPVTTIAQPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6194	3	950	TRGCGNKMAGKKNVLSSLAVYAEDSEPESDGEAGIEAVGSAAEE KGGLVSDAYGEDDFSRLGGDEDGYEEEEDENSRQSEDDDSETEK PEADDPKDNTEAEKRDPQELVASFSERVRNMSPDEIKIPPEPPG RCSNHLQDKIQKLYERKIKEGMDMNYIIQRKKEFRNPSIYEKLI QFCAIDELGTNYPKDMFDPHGWSEDSYYEALAKAQKIEMDKLEK AKKERTKIEFVTGTKKGTTTNATSTTTTTASTAVADAQKRKSKW DSAIPVTTIAQPTILTTTATLPAVVTVTTSASGSKTTVISAVGT IVKKAKQ
6195	736	235	VANGLQSNMPKFYCDYCDTYLTHDSPSVRKTHCSGRKHKENVKD YYQKWMEEQAQSLIDKTTAAFQQGKIPPTPFSAPPPAGAMIPPP PSLPGPPRPGMMPAPHMGGPPMMPMMGPPPPGMMPVGPAPGMRP PMGGHMPMMPGPPMMRPPARPMMVPTRPGMTRPDR
6196	1512	623	KTGKRRSAAYVRNILDNAEQVISNLEARNLGPRLTPLLQEEDSH QRLLMGLMVSELKDHFLRHLQGVEKKKIEQMVLDYISKLLDLIC HIVETNWRKHNLHSWVLHFNSRGSAAEFAVFHIMTRILEATNSL FLPLPPGFHTLHTILGVQCLPLHNLLHCIDSGVLLLTETAVIRL MKDLDNTEKNEKLKFSIIVRLPPLIGQKICRLWDHPMSSNIISR NHVTRLLQNYKKQPRNSMINKSSFSVEFLPLNYFIEILTDIESS NQALYPFEGHDNVDAEFVEEAALKHTAMLLGL
6197	3	819	ADPEGTEEAVMSRYTRPPNTSLFIRNVADATRPEDLRREFGRYG PIVDVYIPLDFYTRRPRGFAYVQFEDVRDAEDALYNLNRKWVCG RQIEIQFAQGDRKTPGQMKSKERHPCSPSDHRRSRSPSQRRTRS RSSSWGRNRRRSDSLKESRHRRFSYSQSKSRSKSLPRRSTSARQ SRTPRRNFGSRGRSRSKSLQKRSKSIGKSQSSSPQKQTSSGTKS RSHGRHSDSIARSPCKSPKGYTNFETKVQTAKHSHFRSHSRSRS YRHKNSW
6198	111	1912	SEAALSPSFISPACFLLRKLPALEDGTLPHPDTLGMNYEGARSE RENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLQDSQ REMPPPPPPSPPSDPAQKPPPRGAGSHSLTVRSSLCLFAASQFL LACGVLWFSGYGHIWSQNATNLVSSLLTLLKQLEPTAWLDSGTW GVPSLLLVFLSGGLVLVTTLVWHLLRTPPEPPTPLPPEDRRQSV SRQPSFTYSEWMEEKIEDDFLDLDPVPETPVFDCVMDIKPEADP TSLTVKSMGLQERRGSNVSLTLDMCTPGCNEEGFGYLMSPREES AREYLLSASRVLQAEELHEKALDPFLLQAEFFEIPMNFVDPKEY DIPGLVRKNRYKTILPNPHSRVCLTSPDPDDPLSSYINANYIRG YGGEEKVYIATQGPIVSTVADFWRMVWQEHTPIIVMITNIEEMN EKCTEYWPEEQVAYDGVEITVQKVIHTEDYRLRLISLKSGTEER GLKHYWFTSWPDQKTPDRAPPLLHLVREVEEAAQQEGPHCAPII VHCSAGIGRTGCFIATSICCQQLRQEGVVDILKTTCQLRQDRGG MIQHCEQYQFVHHVMSLYEKQLSHQSPE
6199	144	1211	MARENGESSSSWKKQAEDIKKIFEFKETLGTGAFSEVVLAEEKA TGKLFAVKCIPKKALKGKESSIENEIAVLRKIKHENIVALEDIY ESPNHLYLVMQLVSGGELFDRIVEKGFYTEKDASTLIRQVLDAV YYLHRMGIVHRDLKPENLLYYSQDEESKIMISDFGLSKMEGKGD VMSTACGTPGYVAPEVLAQKPYSKAVDCWSIGVIAYILLCGYPP

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			FYDENDSKLFEQILKAEYEFDSPYWDDISDSAKDFIRNLMEKDP NKRYTCEQAARHPWIAGDTALNKNIHESVSAQIRKNFAKSKWRQ AFNATAVVRHMRKLHLGSSLDSSNASVSSSLSLASQKDCASGTF HAL*
6200	702	96	LPEVPHSLRPRVKPHLCCAQPAVRVMARLPKLAVFDLDYTLWPF WVDTHVDPPFHKSSDGTVRDRRGQDVRLYPEVPEVLKRLQSLGV PGAAASRTSEIEGANQLLELFDLFRYFVHREIYPGSKITHFERL QQKTGIPFSQMIFFDDERRNIVDVSKLGVTCIHIQNGMNLQTLS QGLETFAKAQTGPLRSSLEESPFEA
6201	2809	2383	GQTPRVRWKMRRSLRAGKRRQTAGRKSKSPPKVPIVIQDDSLPA GPPPQIRILKRPTSNGVVSSPNSTSRPTLPVKSLAQREAEYAEA RKRILGSASPEEEQEKPILDRPTRISQPEDSRQPNNVIRQPLGP DGSQGFKQRR
6202	2	426	INADRAAVASSLLSRPTRKMAPQKDRKPKRSTWRFNLDLTHPVE DGIFDSGNFEQFLREKVKVNGKTGNLGNVVHIERFKNKITVVSE KQFSKRYLKYLTKKYLKKNNLRDWLRVVASDKETYELRYFQISQ DEDESESED
6203	419	2550	RCPRPPATAGAAASRPDRSPPSGISGSEAAAGAGAAAPASQHPA TGTGAVQTEAMKQILGVIDKKLRNLEKKKGKLDDYQERMNKGER LNQDQLDAVSKYQEVTNNLEFAKELQRSFMALSQDIQKTIKKTA RREQLMREEAEQKRLKTVLELQYVLDKLGDDEVRTDLKQGLNGV PILSEEELSLLDEFYKLVDPERDMSLRLNEQYEHASIHLWDLLE GKEKPVCGTTYKVLKEIVERVFQSNYFDSTHNHQNGLCEEEEAA SAPAVEDQVPEAEPEPAEEYTEQSEVESTEYVNRQFMAETQFTS GEKEQVDEWTVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQAD PLVRRQRVQDLMAQMQGPYNFIQDSMLDFENQTLDPAIVSAQPM NPTQNMDMPQLVCPPVHSESRLAQPNQVPVQPEATQVPLVSSTS EGYTASQPLYQPSHATEQRPQKEPIDQIQATISLNTDQTTASSS LPAASQPQVFQAGTSKPLHSSGINVNAAPFQSMQTVFNMNAPVP PVNEPETLKQQNQYQASYNQSFSSQPHQVEQTELQQEQLQTVVG TYHGSPDQSHQVTGNHQQPPQQNTGFPRSNQPYYNSRGVSRGGS RGARGLMNGYRGPANGFRGGYDGYRPSFSNTPNSGYTQSQFSAP RDYSGYQRDGYQQNFKRGSGQSGPRGAPRGRGGPPRPNRGMPQM NTQQVN
6204	2933	787	CTHNLISLLGGRALIHFNRFLNLKIQEGEAHNIFCPAYDCFQLV PGDIIKSVVSKEMDKRYLQFDIKAFVENNPAIKWCPTPGCDRAV RLTKQGSNTSGSDTLSFPLLRAPAVDCGKGHLFCWECLGEAHEP CDCQTWKNWLQKITEMKPEELVGVSEAYEDAANCLWLLTNSKPC ANCKSPIQKNEGCNHMQCAKCKYDFCWICLEEWKKHSFVHWEVI YRCTRYEVIQHVEEQSKEMTVEAEKKHKRFQELDRFMHYYTRFK NHEHSYQLEQRLLKTAKEKMEQLSRALKETEGGCPDTTFIEDAV HVLLKTRRILKCSYPYGPFLEPKSTKKEIFELMQTDLEMVTEDL AQKVNRPYLRTPRHKIIKAACLVQQKRQEFLASVARGVAPADSP EAPRRSFAGGTWDWEYLGFASPEEYAEFQYRRRHRQRRRGDVHS LLSNPPDPDEPSESTLDIPEGGSSSRRPGTSVVSSASMSVLHSS SLRDYTPASRSENQDSLQALSSLDEDDPNILLAIQLSLQESGLA LDEETRDFLSNEASLGAIGTSLPSRLDSVPRNTDSPRAALSSSE LLELGDSLMRLGAENDPFSTDTLSSHPLSEARSDFCPSSSDPDS AGQDPNINDNLLGNIMAWFHDMNPQSIALIPPATTEISADSQLP CIKDGSEGVKDVELVLPEDSMFEDASVSEGRGTQIEENPLEENI PGGGKQHPQAW
6205	1	1200	RAHRGKMALEVGDMEDGQLSDSDSDMTVAPSDRPLQLPKVLGGD SAMRAFQNTATACAPVSHYRAVESVDSSEESFSDSDDDSCLWKR KRQKCFNPPPKPEPFQFGQSSQKPPVAGGKKINNIWGAVLQEQN QDAVATELGILGMEGTIDRSRQSETYNYLLAKKLRKESQEHTKD LDKELDEYMHGGKKMGSKEEENGQGHLKRKRPVKDRLGNRPEMN

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			YKGRYEITAEDSQEKVADEISFRLQEPKKDLIARVVRIIGNKKA IELLMETAEVEQNGGLFIMNGSRRRTPGGVFLNLLKNTPSISEE QIKDIFYIENQKEYENKKAARKRRTQVLGKKMKQAIKSLNFQED DDTSRETFASDTNEALASLDESQEGHAEAKLEAEEAIEVDHSHD LDIF
6206	10	1442	IISERRERSCLHLVCIRCSCDVVEMGSVLGLCSMASWIPCLCGS APCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQ LNKIPGFCENEKGVVPCNILVGYKAVYRLCFGLAMFYLLLSLLM IKVKSSSDPRAAVHNGFWFFKFAAAIAIIIGAFFIPEGTFTTVW FYVGMAGAFCFILIQLVLLIDFAHSWNESWVEKMEEGNSRCWYA ALLSATALNYLLSLVAIVLFFVYYTHPASCSENKAFISVNMLLC VGASVMSILPKIQESQPRSGLLQSSVITVYTMYLTWSAMTNEPE TNCNPSLLSIIGYNTTSTVPKEGQSVQWWHAQGIIGLILFLLCV FYSSIRTSNNSQVNKLTLTSDESTLIEDGGARSDGSLEDGDDVH RAVDNERDGVTYSYSFFHFMLFLASLYIMMTLTNWYRYEPSREM KSQWTAVWVKISSSWIGIVLYVWTLVAPLVLTNRDFD
6207	2924	1471	TVMAEAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAG GGGGGSDGSGGGWTKQVTCRYFMHGVCKEGDNCRYSHDLSDSPY SVVCKYFQRGYCIYGDRCRYEHSKPLKQEEATATELTTKSSLAA SSSLSSIVGPLVEMNTGEAESRNSNFATVGAGSEDWVNAIEFVP GQPYCGRTAPSCTEAPLQGSVTKEESEKEQTAVETKKQLCPYAA VGECRYGENCVYLHGDSCDMCGLQVLHPMDAAQRSQHIKSCIEA HEKDMELSFAVQRSKDMVCGICMEVVYEKANPSERRFGILSNCN HTYCLKCIRKWRSAKQFESKIIKSCPECRITSNFVIPSEYWVEE KEEKQKLILKYKEAMSNKACRYFDEGRGSCPFGGNCFYKHAYPD GRREEPQRQKVGTSSRYRAQRRNHFWELIEERENSNPFDNDEEE VVTFELGEMLLMLLAAGGDDELTDSEDEWDLFHDELEDFYDLDL
6208	2924	1471	TVMAEAATPGTTATTSGAGAAAATAAAASPTPIPTVTAPSLGAG GGGGGSDGSGGGWTKQVTCRYFMHGVCKEGDNCRYSHDLSDSPY SVVCKYFQRGYCIYGDRCRYEHSKPLKQEEATATELTTKSSLAA SSSLSSIVGPLVEMNTGEAESRNSNFATVGAGSEDWVNAIEFVP GQPYCGRTAPSCTEAPLQGSVTKEESEKEQTAVETKKQLCPYAA VGECRYGENCVYLHGDSCDMCGLQVLHPMDAAQRSQHIKSCIEA HEKDMELSFAVQRSKDMVCGICMEVVYEKANPSERRFGILSNCN HTYCLKCIRKWRSAKQFESKIIKSCPECRITSNFVIPSEYWVEE KEEKQKLILKYKEAMSNKACRYFDEGRGSCPFGGNCFYKHAYPD GRREEPQRQKVGTSSRYRAQRRNHFWELIEERENSNPFDNDEEE VVTFELGEMLLMLLAAGGDDELTDSEDEWDLFHDELEDFYDLDL
6209	1758	829	ERLCFPCMQSKIYSYMSPNKCSGMRFPLQEENSVTHHEVKCQGK PLAGIYRKREEKRNAGNAVRSAMKSEEQKIKDARKGPLVPFPNQ KSEAAEPPKTPPSSCDSTNAAIAKQALKKPIKGKQAPRKKAQGK TQQNRKLTDFYPVRRSSRKSKAELQSEERKRIDELIESGKEEGM KIDLIDGKGRGVIATKQFSRGDFVVEYHGDLIEITDAKKREALY AQDPSTGCYMYYFQYLSKTYCVDATRETNRLGRLINHSKCGNCQ TKLHDIDGVPHLILIASRDIAAGEELLYDYGDRSKASIEAHPWL KH
6210	3761	387	IFGMSKLRMVLLEDSGSADFRRHFVNLSPFTITVVLLLSACFVT SSLGGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMEAV SVICNQLGCPTAIKAPGWANSSAGSGRIWMDHVSCRGNESALWD CKHDGWGKHSNCTHQQDAGVTCSDGSNLEMRLTRGGNMCSGRIE IKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNFGEG SGPIWFDDLICNGNESALWNCKHQGWGKHNCDHAEDAGVICSKG ADLSLRLVDGVTECSGRLEVRFQGEWGTICDDGWDSYDAAVACK QLGCPTAVTAIGRVNASKGFGHIWLDSVSCQGHEPAVWQCKHHE WGKHYCNHNEDAGVTCSDGSDLELRLRGGGSRCAGTVEVEIQRL LGKVCDRGWGLKEADVVCRQLGCGSALKTSYQVYSKIQATNTWL

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			FLSSCNGNETSLWDCKNWQWGGLTCDHYEEAKITCSAHREPRLV GGDIPCSGRVEVKHGDTWGSICDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVVCSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKGNGQIWRHMFHCTGTEQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPEESAVACIESGQLRLVNGGGRCAGRVEIYHEGSWGTICD DSWDLSDAHVVCRQLGCGEAINATGSAHFGEGTGPIWLDEMKCN GKESRIWQCHSHGWGQQNCRHKEDAGVICSEFMSLRLTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKGKINP ASLDKAMSIPMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSEET WITCDNKIRLQEGPTSCSGRVEIWHGGSWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKEAEFGQGTGPIWLNEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRQSSFIA VGILGVVLLAIFVALFFLTKKRRQRQRLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH
6211	3761	387	IFGMSKLRMVLLEDSGSADFRRHFVNLSPFTITVVLLLSACFVT SSLGGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMEAV SVICNQLGCPTAIKAPGWANSSAGSGRIWMDHVSCRGNESALWD CKHDGWGKHSNCTHQQDAGVTCSDGSNLEMRLTRGGNMCSGRIE IKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNFGEG SGPIWFDDLICNGNESALWNCKHQGWGKHNCDHAEDAGVICSKG ADLSLRLVDGVTECSGRLEVRFQGEWGTICDDGWDSYDAAVACK QLGCPTAVTAIGRVNASKGFGHIWLDSVSCQGHEPAVWQCKHHE WGKHYCNHNEDAGVTCSDGSDLELRLRGGGSRCAGTVEVEIQRL LGKVCDRGWGLKEADVVCRQLGCGSALKTSYQVYSKIQATNTWL FLSSCNGNETSLWDCKNWQWGGLTCDHYEEAKITCSAHREPRLV GGDIPCSGRVEVKHGDTWGSICDSDFSLEAASVLCRELQCGTVV SILGGAHFGEGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSH SRDVGVVCSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWD IEDAHVLCQQLKCGVALSTPGGARFGKGNGQIWRHMFHCTGTEQ HMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPT RPTIPEESAVACIESGQLRLVNGGGRCAGRVEIYHEGSWGTICD DSWDLSDAHVVCRQLGCGEAINATGSAHFGEGTGPIWLDEMKCN GKESRIWQCHSHGWGQQNCRHKEDAGVICSEFMSLRLTSEASRE ACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKGKINP ASLDKAMSIPMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSEET WITCDNKIRLQEGPTSCSGRVEIWHGGSWGTVCDDSWDLDDAQV VCQQLGCGPALKAFKEAEFGQGTGPIWLNEVKCKGNESSLWDCP ARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRQSSFIA VGILGVVLLAIFVALFFLTKKRRQRQRLAVSSRGENLVHQIQYR EMNSCLNADDLDLMNSSGGHSEPH
6212	1	1134	LKWELRPGGAVWGTGRGAGTGAPRSCCCQTNPGPPSSLRRAFRR RELPFPACHEIGLGAEAGSGPPPAPAARESRSRAMEEEASSPGL GCSKPHLEKLTLGITRILESSPGVTEVTIIEKPPAERHMISSWE QKNNCVMPEDVKNFYLMTNGFHMTWSVKLDEHIIPLGSMAINSI SKLTQLTQSSMYSLPNAPTLADLEDDTHEASDDQPEKPHFDSRS VIFELDSCNGSGKVCLVYKSGKPALAEDTEIWFLDRALYWHPLT DTFTAYYRLLITHLGLPQWQYAFTSYGISPQAKQRVSMYKPITY NTNLLTEETDSFVNKLDPSKVFKSKNKIVIPKKKGPVQPAGGQK GPSGPSGPSTSSTSKSSSGSGNPTRK
6213	1	1134	LKWELRPGGAVWGTGRGAGTGAPRSCCCQTNPGPPSSLRRAFRR RELPFPACHEIGLGAEAGSGPPPAPAARESRSRAMEEEASSPGL GCSKPHLEKLTLGITRILESSPGVTEVTIIEKPPAERHMISSWE QKNNCVMPEDVKNFYLMTNGFHMTWSVKLDEHIIPLGSMAINSI SKLTQLTQSSMYSLPNAPTLADLEDDTHEASDDQPEKPHFDSRS

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			VIFELDSCNGSGKVCLVYKSGKPALAEDTEIWFLDRALYWHFLT DTFTAYYRLLITHLGLPQWQYAFTSYGISPQAKQRVSMYKPITY NTNLLTEETDSFVNKLDPSKVFKSKNKIVIPKKKGPVQPAGGQK GPSGPSGPSTSSTSKSSSGSGNPTRK
6214	2	460	HELAPSAIRRAARLGLGPARWQSRAAAFYFVRGFRTGWSFVGWV VLGTSAKRTRLFFFLSKMAASSRAQVLALYRAMLRESKRFSAYN YRTYAVRRIRDAFRENKNVKDPVEIQTLVNKAKRDLGVIRRQVH IGQLYSTDKLIIENRDMPRT
6215	2	1849	FVAGGPRGSGSAAETMPEIRVTPLGAGQDVGRSCILVSIAGKNV MLDCGMHMGFNDDRRFPDFSYITQNGRLTDFLDCVIISHFHLDH CGALPYFSEMVGYDGPIYMTHPTQAICPILLEDYRKIAVDKKGE ANFFTSQMIKDCMKKVVAVHLHQTVQVDDELEIKAYYAGHVLGA AMFQIKVGSESVVYTGDYNMTPDRHLGAAWIDKCRPNLLITEST YATTIRDSKRCRERDFLKKVHETVERGGKVLIPVFALGRAQELC ILLETFWERMNLKVPIYFSTGLTEKANHYYKLFIPWTNQKIRKT FVQRNMFEFKHIKAFDRAFADNPGPMVVFATPGMLHAGQSLQIF RKWAGNEKNMVIMPGYCVQGTVGHKILSGQRKLEMEGRQVLEVK MQVEYMSFSAHADAKGIMQLVGQAEPESVLLVHGEAKKMEFLKQ KIEQELRVNCYMPANGETVTLPTSPSIPVGISLGLLKREMAQGL LPEAKKPRLLHGTLIMKDSNFRLVSSEQALKELGLAEHQLRFTC RVHLHDTRKEQETALRVYSHLKSVLKDHCVQHLPDGSVTVESVL LQAAAPSEDPGTKVLLVSWTYQDEELGSFLTSLLKKGLPQAPS
6216	11	393	QTTRPEPRNSALRQSRSKMAVVGVSSVSRLLGRSRPQLGRPMSS GAHGEEGSARMWKTLTFFVALPGVAVSMLNVYLKSHHGEHERPE FIAYPHLRIRTKPFPWGDGNHTLFHNPHVNPLPTGYEDE
6217	9	1178	TRVGRGESGLKMEVKPPPGRPQPDSGRRRRRRGEEGHDPKEPEQ LRKLFIGGLSFETTDDSLREHFEKWGTLTDCVVMRDPQTKRSRG FGFVTYSCVEEVDAAMCARPHKVDGRVVEPKRAVSREDSVKPGA HLTVKKIFVGGIKEDTEEYNLRDYFEKYGKIETIEVMEDRQSGK KRGFAFVTFDDHDTVDKIVVQKYHTINGHNCEVKKALSKQEMQS AGSQRGRGGGSGNFMGRGGNFGGGGGGNFGRGGNFGGRGGYGGGG GGSRGSYGGGDGGYNGFGGDGGNYGGGPGYSSRGGYGGGGPGYG NQGGGYGGGGGYGDGYNEGGNFGGGNYGGGGNYNDFGNYSGGQQS NYGPMKGGSFGGRSSGSPYGGGYGSGGGSGGYGSRRF
6218	1305	906	SCERRGFIMADDLKRFLYKKLPSVEGLHAIVVSDRDGVPVIKVA NDNAPEHALRPGFLSTFALATDQGSKLGLSKNKSIICYYNTYQV VQFNRLPLVVSFIASSSANTGLIVSLEKELAPLFEELRQVVEVS
6219	2	890	AGPGEGAGAGTRCAGAEAEMASAGGEDCESPAPEADRPHQRPFL IGVSGGTASGKSTVCEKIMELLGQNEVEQRQRKVVILSQDRFYK VLTAEQKAKALKGQYNFDHPDAFDNDLMHRTLKNIVEGKTVEVP TYDFVTHSRLPETTVVYPADVVLFEGILVFYSQEIRDMFHLRLF VDTDSDVRLSRRVLRDVRRGRDLEQILTQYTTFVKPAFEEFCLP TKKYADVIIPRGVDNMVAINLIVQHIQDILNGDICKWHRGGSNG RSYKRTFSEPGDHPGMLTSGKRSHLESSSRPH
6220	227	764	EQNISLEMSCTIEKALADAKALVERLRDHDDAAESLIEQTTALN KRVEAMKQYQEEIQELNEVARHRPRSTLVMGIQQENRQIRELQQ ENKELRTSLEEHQSALELIMSKYREQMFRLLMASKKDDPGIIMK LKEQHSKIDMVHRNKSEGFFLDASRHILEAPQHGLERRHLEANQ NVH
6221	98	916	RWIWDLNPVSDGLELRPKYNGILHCLTTIWKLDGLRGLYQGVTP NIWGAGLSWGLYFVFYNAIKSYKTEGRAERLEATEYLVSAAEAG AMTLCITNPLWVTKTRLMLQYDAVVNSPHRQYKGMFDTLVKIYK YEGVRGLYKGFVPGLFGTSHGALQFMAYELLKLKYNQHINRLPE AQLSTVEYISVAALSKIFAVAATYPYQVVRARLQDQHMFYSGVI DVITKTWRKEGVGGFYKGIAPNLIRVTPACCITFVVYENVSHFL LDLREKRK

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6222	2	2116	MARELRALLLWGRRLRPLLRAPALAAVPGGKPILCPRRTTAQLG PRRNPAWSLQAGRLFSTQTAEDKEEPLHSIISSTESVQGSTSKH EFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLV SDGQALPEMEIHLQTNAEKGTITIQDTGIGMTQEELVSNLGTIA RSGSKAFLDALQNQAEASSKIICQFGVGFYSAFMVADRVEVYSR SAAPGSLGYQWLSDGSGVFEIAEASGVRTGTKIIIHLKSDCKEF SSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWMMDPKDVRE WQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPDMKPSM FDVSRELGSSVALYSRKVLIQTKATDILPKWLRFIRGVVDSEDI PLNLSRELLQESALIRKLRDVLQQRLIKFFIDQSKKDAEKYAKF FEDYGLFMREGIVTATEQEVKEDIAKLLRYESSALPSGQLTSLS EYASRMRAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVLFCF EQFDELTLLHLREFDKKKLISVETDIVVDHYKEEKFEDRSPAAE CLSEKETEELMAWMRNVLGSRVTNVKVTLRLDTHPAMVTVLEMG AARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRAS EPGLAQLLVDQIYENAMIAAGLVDDPRAMVGRLNELLVKALERH
6223	3	715	DAWARTMAGMVDFQDEEQVKSFLENMEVECNYHCYHEKDPDGCY RLVDYLEGIRKNFDEAAKVLKFNCEENQHSDSCYKLGAYYVTGK GGLTQDLKAAARCFLMACEKPGKKSIAACHNVGLLAHDGQVNED GQPDLGKARDYYTRACDGGYTSSCFNLSAMFLQGAPGFPKDMDL ACKYSMKACDLGHIWACANASRMYKLGDGVDKVEAKAEVLKNRA QQVHKEQQKGVQPLTFG
6224	1	133	LRTISSMAWGPLLLTLLAHCTGSWAQSVLTQPPSVSGARIPHEK
6225	3259	938	LLSCHRLAICKLPFSVESRKTVMGPQGARRQAFLAFGDVTVDFT QKEWRLLSPAQRALYREVTLENYSHLVSLGILHSKPELIRRLEQ GEVPWGEERRRRPGPCAGIYAEHVLRPKNLGLAHQRQQQLQFSD QSFQSDTAEGQEKEKSTKPMAFSSPPLRHAVSSRRRNSVVEIES SQGQRENPTEIDKVLKGIENSRWGAFKCAERGQDFSRKMMVIIH KKAHSRQKLFTCRECIQGFRDESALLLHQNTHTGEKSYVCSVCG RGFSLKANLLRHQRTHSGEKPFLCKVCGRGYTSKSYLTVHERTH TGEKPYECQECGRRFNDKSSYNKHLKAHSGEKPFVCKECGRGYT NKSYFVVHKRIHSGEKPYRCQECGRGFSNKSHLITHQRTHSGEK PFACRQCKQSFSVKGSLLRHQRTHSGEKPFVCKDCERSFSQKST LVYHQRTHSGEKPFVCRECGQGFIQKSTLVKHQITHSEEKPFVC KDCGRGFIQKSTFTLHQRTHSEEKPYGCRECGRRFRDKSSYNKH LRAHLGEKRFFCRDCGRGFTLKPNLTIHQRTHSGEKPPMCKQCE KSFSLKANLLRHQWTHSGERPFNCKDCGRGFILKSTLLFHQKTH SGEKPFICSECGQGFIWKSNLVKHQLAHSGKQPFVCKECGRGFN WKGNLLTHQRTHSGEKPFVCNVCGQGFSWKRSLTRHHWRIHSKE KPFVCQECKRGYTSKSDLTVHERIHTGERPYECQECGRKFSNKS YYSKHLKRHLREKRFCTGSVGEASS
6226	29	266	TKVSELLGGSQRLFFLPLWRRLCRCGLGPRVSPMAGPRVEVDGS IMEGGGQSLRVSTGLSWLLSLPWRAQRIRAGRSYA
6227	2581	890	MSASSLLEQRPKGQGNKVQNGSVHQKDGLNDDDFEPYLSPQARP NNAYTAMSDSYLPSYYSPSIGFSYSLGEAAWSTGGDTAMPYLTS YGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFS AWGNNSSQGQSTQSSGYSSNYAYAPSSLGGAMIDGQSAFANETL NKAPGMNTIDQGMAALKLGSTEVASNVPKVVGSAVGSGSITSNI VASNSLPPATIAPPKPASWADIASKPAKQQPKLKTKNGIAGSSL PPPPIKHNMDIGTWDNKGPVAKAPSQALVQNIGQPTQGSPQPVG QQANNSPPVAQASVGQQTQPLPPPPPQPAQLSVQQQAAQPTRWV APRNRGSGFGHNGVDGNGVGQSQAGSGSTPSEPHPVLEKLRSIN NYNPKDFDWNLKHGRVFIIKSYSEDDIHRSIKYNIWCSTEHGNK RLDAAYRSMNGKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAG VWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVTNSRD TQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQ

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6228	47	1978	GRRCRRRGAVMELAQEARELGCWAVEEMGVPVAARAPESTLRRL CLGQGADIWAYILQHVHSQRTVKKIRGNLLWYGHQDSPQVRRKL ELEAAVTRLRAEIQELDQSLELMERDTEAQDTAMEQARQHTQDT QRRALLLRAQAGAMRRQQHTLRDPMQRLQNQLRRLQDMERKAKV DVTFGSLTSAALGLEPVVLRDVRTACTLRAQFLQNLLLPQAKRG SLPTPHDDHFGTSYQQWLSSVETLLTNHPPGHVLAALEHLAAER EAEIRSLCSGDGLGDTEISRPQAPDQSDSSQTLPSMVHLIQEGW RTVGVLVSQRSTLLKERQVLTQRLQGLVEEVERRVLGSSERQVL ILGLRRCCLWTELKALHDQSQELQDAAGHRQLLLRELQAKCQRI LHWRQLVEETQEQVRLLIKGNSASKTRLCRSPGEVLALVQRKVV PTFEAVAPQSRELLRCLEEEVRHLPHILLGTLLRHRPGELKPLP TVLPSIHQLHPASPRGSSFIALSHKLGLPPGKASELLLPAAASL RQDLLLLQDQRSLWCWDLLHMKTSLPPGLPTQELLQIQASQEKQ QKENLGQALKRLEKLLKQALERIPELQGIVGDWWEQPGQAALSE ELCQGLSLPQWRLRWVQAQGALQKLCS
6229	1571	560	GPSLLGTRGTPNPARTLQIFFLIIGRRLTGRMAAVDDLQFEEFG NAATSLTANPDATTVNIEDPGETPKHQPGSPRGSGREEDDELLG NDDSDKTELLAGQKKSSPFWTFEYYQTFFDVDTYQVFDRIKGSL LPIPGKNFVRLYIRSNPDLYGPFWICATLVFAIAISGNLSNFLI HLGEKTYHYVPEFRKVSIAATIIYAYAWLVPLALWGFLMWRNSK VMNIVSYSFLEIVCVYGYSLFIYIPTAILWIIPHKAVRWILVMI ALGISGSLLAMTFWPAVREDNRRVALATIVTIVLLHMLLSVGCL AYFFDAPEMDHLPTTTATPNQTVAAAKSS
6230	1723	600	SKMSGRSGKKKMSKLSRSARAGVIFPVGRLMRYLKKGTFKYRIS VGAPVYMAAVIEYLAAEILELAGNAARDNKKARIAPRHILLAVA NDEELNQLLKGVTIASGGVLPRIHPELLAKKRGTKGKSETILSP PPEKRGRKATSGKKGGKKSKAAKPRTSKKSKPKDSDKEGTSNST SEDGPGDGFTILSSKSLVLGQKLSLTQSDISHIGSMRVEGIVHP TTAEIDLKEDIGKALEKAGGKEFLETVKELRKSQGPLEVAEAAV SQSSGLAAKFVIHCHIPQWGSDKCEEQLEETIKNCLSAAEDKKL KSVAFPPFPSGRNCFPKQTAAQVTLKAISAHFDDSSASSLKNVY FLLFDSESIGIYVQEMAKLDAK
6231	149	870	LIFSSSTMDRSLRNVLVVSFGFLLLFTAYGGLQSLQSSLYSEEG LGVTALSTLYGGMLLSSMFLPPLLIERLCCKGTIILSMCGYVAF SVGNFFASWYTLIPTSILLGLGAAPLWSAQCTYLTITGNTHAEK ACKRGKDMVNQYFGIFFLIFQSSGVWGNLISSLVFGQTPSQETL PEEQLTSCGASDCLMATTTTNSTQRPSQQLVYTLLGIYTGSGVL AVLMIAAFLQPIRDVQRESE
6232	3679	1476	FVAGTTMAGFWVGTAPLVAAGRRGRWPPQQLMLSAALRTLKHVL YYSRQCLMVSRNLGSVGYDPNEKTFDKILVANRGEIACRVIRTC KKMGIKTVAIHSDVDASSVHVKMADEAVCVGPAPTSKSYLNMDA IMEAIKKTRAQAVHPGYGFLSENKEFARCLAAEDVVFIGPDTHA IQAMGDKIESKLLAKKAEVNTIPGFDGVVKDAEEAVRIAREIGY PVMIKASAGGGGKGMRIAWDDEETRDGFRLSSQEAASSFGDDRL LIEKFIDNPRHIEIQVLGDKHGNALWLNERECSIQRRNQKVVEE APSIFLDAETRRAMGEQAVALARAVKYSSAGTVEFLVDSKKNFY FLEMNTRLQVEHPVTECITGLDLVQEMIRVAKGYPLRHKQADIR INGWAVECRVYAEDPYKSFGLPSIGRLSQYQEPLHLPGVRVDSG IQPGSDISIYYDPMISKLITYGSDRTEALKRMADALDNYVIRGV THNIALLREVIINSRFVKGDISTKFLSDVYPDGFKGHMLTKSEK NQLLAIASSLFVAFQLRAQHFQENSRMPVIKPDIANWELSVKLH DKVHTVVASNNGSVFSVEVDGSKLNVTSTWNLASPLLSVSVDGT QRTVQCLSREAGGNMSIQFLGTVYKVNILTRLAAELNKFMLEKV TEDTSSVLRSPMPGVVVAVSVKPGDAVAEGQEICVIEAMKMQNS MTAGKTGTVKSVHCQAGDTVGEGDLLVELE
6233	1	2654	HSTRENLNAGNFNFPSEGHLVRSTGPGGSFAKHMVAQCVSPKGP

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			LACSRTYFFGATHVPYLGGDSKLPKKTEQIRLLSQIYAAVIEAV LAGIACYAKTSSLTKAKEVAEQTLGSGLDSFELIPFKAALRSKM TFHIHAVNNQGRIVPLDSEDSLSFVKTACMAVYDIPDLLGGNGC LGSVVFSESFLTSQILVKEKDGTVTTETSSVVLTAAVPRFCSWL VEDNEVKLSEKTHQAVRGDESFLGTYLTGGEGAYLYSSNLQSWP EEGNVHFFSSGLLFSHCRHGSIIISKDHMNSISFYDGDSTSTVA ALLIDFKSSLLPHLPVHFHGSSNFLMIALFPKSKIYQAFYSEVF SLWKQQDNSGISLKVIQEDGLSVEQKRLHSSAQKLFSALSQPAG EKRSSLKLLSAKLPELDWFLQHFAISSISQEPVMRTHLPVLLQQ AEINTTHRIESDKVIISIVTGLPGCHASELCAFLVTLHKECGRW MVYRQIMDSSECFHAAHFQRYLSSALEAQQNRSARQSAYIRKKT RLLVVLQGYTDVIDVVQALQTHPDSNVKASFTIGAITACVEPMS CYMEHRFLFPKCLDQCSQGLVSNVVFTSHTTEQRHPLLVQLQSL IRAANPAAAFILAENGIVTRNEDIELILSENSFSSPEMLRSRYL MYPGWYEGKLNAGSVYPLMVQICVWFGRPLEKTRFVAKCKAIQS SIKPSPFSGNIYHILGKVKFSDSERTMEVCYNTLANSLSIMPVL EGPTPPPDSKSVSQDSSGQQECYLVFIGCSLKEDSIKDWLRQSA KQKPQRKALKTRGMLTQQEIRSIHVKRHLEPLPAGYFYNGTQFV NFFGDKTDFHPLMDQFMNDYVEEANREIEKYNQELEQQEYHDLF ELKP
6234	1731	404	PRVREDMDHKSPGNKGSLVYAGIKSIVKSSLGMVESSRHNWSGL DKQSDIQNLNEERILALQLCGWIKKGTDVDVGPFLNSLVQEGEW ERAAAVALFNLDIRRAIQILNEGASSEKGDLNLNVVAMALSGYT DEKNSLWREMCSTLRLQLNNPYLCVMFAFLTSETGSYDGVLYEN KVAVRDRVAFACKFLSDTQLNRYIEKLTNEMKEAGNLEGILLTG LTKDGVDLMESYVDRTGDVQTASYCMLQGSPLDVLKDERVQYWI ENYRNLLDAWRFWHKRAEFDIHRSKLDPSSKPLAQVFVSCNFCG KSISYSCSAVPHQGRGFSQYGVSGSPTKSKVTSCPGCRKPLPRC ALCLINMGTPVSSCPGGTKSDEKVDLSKDKKLAQFNNWFTWCHN CRHGGHAGHMLSWFRDHAECPVSACTCKCMQLDTTGNLVPAETV QP
6235	1	571	EKRDHRLPSWPRAALKVPGRGGRVGTTPELAAGGIMATRNPPPQ DYESDDDSYEVLDLTEYARRHQWWNRVFGHSSGPMVEKYSVATQ IVMGGVTGWCAGFLFQKVGKLAATAVGGGFLLLQIASHSGYVQI DWKRVEKDVNKAKRQIKKRANKAAPEINNLIEEATEFIKQNIVI SSGFVGGFLLGLAS
6236	1	703	WDQNKGAAAGSGLTLPSLPSARFSAGPPTQRSRPTMSNMEKHLF NLKFAAKELSRSAKKCDKEEKAEKAKIKKAIQKGNMEVARIHAE NAIRQKNQAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVK SMDATLKTMNLEKISALMDKFEHQFETLDVQTQQMEDTMSSTTT LTTPQNQVDMLLQEMADEAGLDLNMELPQGQTGSVGTSVASAEQ DELSQRLARLRDQV
6237	312	720	PTAMAEEGIAAGGVMDVNTALQEVLKTALIHDGLARGIREAAKA LDKRQAHLCVLASNCDEPMYVKLVEALCAEHQINLIKVDDNKKL GEWVGLCKIDREGKPRKVVGCSCVVVKDYGKESQAKDVIEEYFK CKK
6238	2	4666	EEVPTQESVKWEINVIIKNPEIVFVADMTKNDAPALVITTQCEI CYKGNLENSTMTAAIKDLQVRACPFLPVKRKGKITTVLQPCDLF YQTTQKGTDPQVIDMSVKSLTLKVSPVIINTMITITSALYTTKE TIPEETASSTAHLWEKKDTKTLKMWFLEESNETEKIAPTTELVP KGEMIKMNIDSIFIVLEAGIGHRTVPMLLAKSRFSGEGKNWSSL INLHCQLELEVHYYNEMFGVWEPLLEPLEIDQTEDFRPWNLGIK MKKKAKMAIVESDPEEENYKVPEYKTVISFHSKDQLNITLSKCG LVMLNNLVKAFTEAATGSSADFVKDLAPFMILNSLGLTISVSPS DSFSVLNIPMAKSYVLKNGESLSMDYIRTKDNDHFNAMTSLSSK LFFILLTPVNHSTADKIPLTKVGRRLYTVRHRESGVERSIVCQI

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			DTVEGSKKVTIRSPVQIRNHFSVPLSVYEGDTLLGTASPENEFN IPLGSYRSFIFLKPEDENYQMCEGIDFEEIIKNDGALLKKKCRS KNPSKESFLINIVPEKDNLTSLSVYSEDGWDLPYIMHLWPPILL RNLLPYKIAYYIEGIENSVFTLSEGHSAQICTAQLGKARLHLKL LDYLNHDWKSEYHIKPNQQDISFVSFTCVTEMEKTDLDIAVHMT YNTGQTVVAFHSPYWMVNKTGRMLQYKADGIHRKHPPNYKKPVL FSFQPNHFFNNNKVQLMVTDSELSNQFSIDTVGSHGAVKCKGLK MDYQVGVTIDLSSFNITRIVTFTPFYMIKNKSKYHISVAEEGND KWLSLDLEQCIPFWPEYASSKLLIQVERSEDPPKRIYFNKQENC ILLRLDNELGGIIAEVNLAEHSTVITFLDYHDGAATFLLINHTK NELVQYNQSSLSEIEDSLPPGKAVFYTWADPVGSRRLKWRCRKS HGEVTQKDDMMMPIDLGEKTIYLVSFFEGLQRIILFTEDPRVFK VTYESEKAELAEQEIAVALQDVGISLVNNYTKQEVAYIGITSSD VVWETKPKKKARWKPMSVKHTEKLEREFKEYTESSPSEDKVIQL DTNVPVRLTPTGHNMKILQPHVIALRRNYLPALKVEYNTSAHQS SFRIQIYRIQIQNQIHGAVFPFVFYPVKPPKSVTMDSAPKPFTD VSIVMRSAGHSQISRIKYFKVLIQEMDLRLDLGFIYALTDLMTR AEVTENTEVELFHKDIEAFKEEYKTASLVDQSQVSLYEYFHISP IKLHLSVSLSSGREEAKDSKQNGGLIPVHSLNLLLKSIGATLTD VQDVVFKLAFFELNYQFHTTSDLQSEVIRHYSKQAIKQMYVLIL GLDVLGNPFGLIREFSEGVEAFFYEPYQGAIQGPEEFVEGMALG LKALVGGAVGGLAGAASKITGAMAKGVAAMTMDEDYQQKRREAM NKQPAGFREGITRGGKGLVSGFVSGITGIVTKPIKGAQKGGAAG FFKGVGKGLVGAVARPTGGIIDMASSTFQGIKRATETSEVESLR PPRFFNEDGVIRPYRLRDGTGNQMLQKIQFYREWIMTHSSSSDD DDDDDDDDESDLNH
6239	2108	634	KPGMAGKGSSGRRPLLLGLLVAVATVHLVICPYTKVEESFNLQA THDLLYHWQDLEQYDHLEFPGVVPRTFLGPVVIAVFSSPAVYVL SLLEMSKFYSQLIVRGVLGLGVIFGLWTLQKEVRRHFGAMVATM FCWVTAMQFHLMFYCTRTLPNVLALPVVLLALAAWLRHEWARFI WLSAFAIIVFRVELCLFLGLLLLLALGNRKVSVVRALRHAVPAG ILCLGLTVAVDSYFWRQLTWPEGKVLWYNTVLNKSSNWGTSPLL WYFYSALPRGLGCSLLFIPLGLVDRRTHAPTVLALGFMALYSLL PHKELRFIIYAFPMLNITAARGCSYLLNNYKKSWLYKAGSLLVI GHLVVNAAYSATALYVSHFNYPGGVAMQRLHQLVPPQTDVLLHI DVAAAQTGVSRFLQVNSAWRYDKREDVQPGTGMLAYTHILMEAA PGLLALYRDTHRVLASVVGTTGVSLNLTQLPPFNVHLQTKLVLL ERLPRPS
6240	2202	1176	HERGDSLKEPTSIAESSRHPSYRSEPSLEPESFRSPTFGKSFHF DPLSSGSRSSSLKSAQGTGFELGQLQSIRSEGTTSTSYKSLANQ TRNGSLSYDSLLTPSDSPDFESVQAGPEPDPPLGYTSPPLSARL AQQREAERHPRLVPTGPTHREPSPVRYDNLSRHIVASLQEREKL LRQSPPLPGREEEPGLGDSGIQSTPGSGHAPRTSSSSDDSKRSP LGKTPLGRPAVPRFGKPDGLRGRGVGSPEPGPTAPYLGRSMSYS SQKAQPGVSETEEVALQPLLTPKDEVQLKTTYSKSNGQPKSLGS ASPGPGQPPLSSPTRGGVKKVSGVGGTTYEISV
6241	3	1341	RNAEEKKRLSLQREKIIARVSIDNRTRALVQALRRTTDPKLCIT RVEELTFHLLEFPEGKGVAVKERIIPYLLRLRQIKDETLQAAVR EILALIGYVDPVKGRGIRILSIDGGGTRGVVALQTLRKLVELTQ KPVHQLFDYICGVSTGAILAFMLGLFHMPLDECEELYRKLGSDV FSQNVIVGTVKMSWSHAFYDSQTWENILKDRMGSALMIETARNP TCPKVAAVSTIVNRGITPKAFVFRNYGHFPGINSHYLGGCQYKM WQAIRASSAAPGYFAEYALGNDLHQDGGLLLNNPSALAMHECKC LWPDVPLECIVSLGTGRYESDVRNTVTYTSLKTKLSNVINSATD TEEVHIMLDGLLPPDTYFRFNPVMCENIPLDESRNEKLDQLQLE GLKYIERNEQKMKKVAKILSQEKTTLQKINDWIKLKTDMYEGLP

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			FFSKL
6242	198	1310	QHFLPGAETWSPGAAVCTARRFPGRSLAAFPRPAAPRRAVEMGE SSEDIDQMFSTLLGEMDLLTQSLGVDTLPPPDPNPPRAEFNYSV GFKDLNESLNALEDQDLDALMADLVADISEAEQRTIQAQKESLQ NQHHSASLQASIFSGAASLGYGTNVAATGISQYEDDLPPPPADP VLDLPLPPPPPEPLSQEEEEAQAKADKIKLALEKLKEAKVKKLV VKVHMNDNSTKSLMVDERQLARDVLDNLFEKTHCDCNVDWCLYE IYPELQIERFFEDHENVVEVLSDWTRDTENKILFLEKEEKYAVF KNPQNFYLDNRGKKESKETNEKMNAKNKESLLEVRLILQSGRKE KDVCSIFKSFASENNGKI
6243	1509	614 .	RSASRFSGCWSRDSTCCCCPSTCWSRSSASCPRARWPPSSAPAT TSRASSRRLACGPQTRAGAETRSTAMIRANSAARDTRRATCRSA AGTPSPTTMTCLTDVPTGCAAVEPTARLPAAAWASTITTGCCPA MGQAGAGPAGRKGSEAGGGPGRAHHAHPSPLPREPRVRTGPPAH SPTPGSIDPSPELSWGSAGVTQESPLLDPVDFLLFRTRAVDPLR RVFFFFYQHLTFFSIQPQPPPCHAFHPRDPPAGTKRQLILVPLK GPPILAPILSLTPILSRWSCYFPRSRIAQGWHLS
6244	2119	1745	FEHAYASQFGTFLGNNESERCKLKLQQKTMSLWSWVNQPSELSK FTNPLFEANNLVIWPSVAPQSLPLWEGIFLRWNRSSKYLDEAYE EMVNIIEYNKELQAKVNILRRQLAELETEDGMQESP
6245	81	1148	LSLRNAKYSFPQELISLFSMTDLNDNICKRYIKMITNIVILSLI ICISLAFWIISMTASTYYGNLRFISPWRWLFSVVVPVLIVSNGL KKKSLDHSGALGGLVVGFILTIANFSFFTSLLMFFLSSSKLTKW KGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTELALLYMIENGPG EIPVDFSKQYSASWMCLSLLAALACSAGDTWASEVGPVLSKSSP RLITTWEKVPVGTNGGVTVVGLVSSLLGGTFVGIAYFLTQLIFV NDLDISAPQWPIIAFGGGLAGLLGSIVDSYLGATMQYTGLDESTG MVVNSPTNKARHIAGKPILDNNAVNLFSSVLIALLLPTAAWGFW PRG
6246	1177	359	SLWPWILMDDSLMQISLQLLCVYTANFPNGCSSLCWSSCGQHPV QATHRGAVSNSLMLCILKLASQMPLENTTVQQMVFMLLSNLALS HDCKGVIQKSNFLQNFLSLALPKGGNKHLSNLTILWLKLLLNIS SGEDGQQMILRLDGCLDLLTEMSKYKHKSSPLLPLLIFHNVCFS PANKPKILANEKVITVLAACLESENQNAQRIGAAALWALIYNYQ KAKTALKSPSVKRRVDEAYSLAKKTFPNSEANPLNAYYLKCLEN LVQLLNSS
6247	3	1678	NSRVWGPWTEPSAGSLRPMARKQNRNSKELGLVPLTDDTSHAGP PGPGRALLECDHLRSGVPGGRRRKDWSCSLLVASLAGAFGSSFL YGYNLSVVNAPTPYIKAFYNESWERRHGRPIDPDTLTLLWSVTV SIFAIGGLVGTLIVKMIGKVLGRKHTLLANNGFAISAALLMACS LQAGAFEMLIVGRFIMGIDGGVALSVLPMYLSEISPKEIRGSLG QVTAIFICIGVFTGQLLGLPELLGKESTWPYLFGVIVVPAVVQL LSLPFLPDSPRYLLLEKHNEARAVKAFQTFLGKAHVSQEVEEVL AESRVQRSIRLVSVLELLRAPYVRWQVVTVIVTMACYQLCGLNA IWFYTNSIFGKAGIPPAKIPYVTLSTGGIETLAAVFSGLVIEHL GRRPLLIGGFGLMGLFFGTLTITLTLQDHAPWVPYLSIVGILAI IASFCSGPGGIPFILTGEFFQQSQRPAAFIIAGTVNWLSNFAVG LLFPFIQKSLDTYCFLVFATICITGAIYLYFVLPETKNRTYAEI SQAFSKRNKAYPPEEKIDSAVTDGKINGRP
6248	56	1773	VPPPRMMAAVPPGLEPWNRVRIPKAGNRSAVTVQNPGAALDLCI AAVIKECHLVILSLKSQTLDAETDVLCAVLYSNHNRMGRHKPHL ALKQVEQCLKRLKNMNLEGSIQDLFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLLRLLDCCCKTFLLTVKHLGLQEFII LNLVMVGLVSRLWVLYKGVLKRLILLYEPLFGLLQEVARIQPMP YFKDFTFPSDITEFLGQPYFEAFKKKMPIAFAAKGINKLLNKLF LINEQSPRASEETLLGISKKAKQMKINVQNNVDLGQPVKNKRVF

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			KEESSEFDVRAFCNQLKHKATQETSFDFKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEEIQMAVVWCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLLRGSGIK TSKHHLRQRRSQNKFLRRQRKPQRKLQSTLLREIQQFSQGTRKS ATDTSAKWRLSHCTVHRTDLYPNSKQLLNSGVSMPVIQTKEKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIFALMGV
6249	56	1773	VPPPRMMAAVPPGLEPWNRVRIPKAGNRSAVTVQNPGAALDLCI AAVIKECHLVILSLKSQTLDAETDVLCAVLYSNHNRMGRHKPHL ALKQVEQCLKRLKNMNLEGSIQDLFELFSSNENQPLTTKVCVVP SQPVVELVLMKVLGACKLLLRLLDCCCKTFLLTVKHLGLQEFII LNLVMVGLVSRLWVLYKGVLKRLILLYEPLFGLLQEVARIQPMP YFKDFTFPSDITEFLGQPYFEAFKKKMPIAFAAKGINKLLNKLF LINEQSPRASEETLLGISKKAKQMKINVQNNVDLGQPVKNKRVF KEESSEFDVRAFCNQLKHKATQETSFDFKCSQSRLKTTKYSSQK VIGTPHAKSFVQRFREAESFTQLSEEIQMAVVWCRSKKLKAQAI FLGNKLLKSNRLKHLEAQGTSLPKKLECIKTSICNHLLRGSGIK TSKHHLRQRRSQNKFLRRQRKPQRKLQSTLLREIQQFSQGTRKS ATDTSAKWRLSHCTVHRTDLYPNSKQLLNSGVSMPVIQTKEKMI HENLRGIHENETDSWTVMQINKNSTSGTIKETDDIDDIFALMGV
6250	232	1306	LAALHIMALPFRKDLEKYKDLDEDELLGNLSETELKQLETVLDD LDPENALLPAGFRQKNQTSKSTTGPFDREHLLSYLEKEALEHKD REDYVPYTGEKKGKIFIPKQKPVQTFTEEKVSLDPELEEALTSA SDTELCDLAAILGMHNLITNTKFCNIMGSSNGVDQEHFSNVVKG EKILPVFDEPPNPTNVEESLKRTKENDAHLVEVNLNNIKNIPIP TLKDFAKALETNTHVKCFSLAATRSNDPVATAFAEMLKVNKTLK SLNVESNFITGVGILALIDALRDNETLAELKIDNQRQQLGTAVE LEMAKMLEENTNILKFGYQFTQQGPRTRAANAITKNNDLVRKRR VEGDHQ
6251	62	972	TPGSGPMSAWAAASLSRAAARCLLARGPGVRAAPPRDPRPSHPE PRGCGAAPGRTLHFTAAVPAGHNKWSKVRHIKGPKDVERSRIFS KLCLNIRLAVKEGGPNPEHNSNLANILEVCRSKHMPKSTIETAL KMEKSKDTYLLYEGRGPGGSSLLIEALSNSSHKCQADIRHILNK NGGVMAVGARHSFDKKGVIVVEVEDREKKAVNLERALEMAIEAG AEDVKETEDEEERNVFKFICDASSLHQVRKKLDSLGLCSVSCAL EFIPNSKVQLAEPDLEQAAHLIQALSNHEDVIHVYDNIE
6252	27	1897	EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRISKKPQV PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSR KLPHSKAKTRSRLEVAEAEEEETSIKAARSELLLAEEPGFLEGE DGEDTAKICQADIVEAVDIASAAKHFDLNLRQFGPYRLNYSRTG RHLAFGGRRGHVAALDWVTKKLMCEINVMEAVRDIRFLHSEALL AVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLLATASE TGFLTYLDVSVGKIVAALNARAGRLDVMSQNPYNAVIHLGHSNG TVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGTYMATSGLDHQL KIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMGDVVNIWA GQGKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRQEWEVKALLEKVPAELIC LDPRALAEVDVISLEQGKKEQIERLGYDPQAKAPFQPKPKQKGR SSTASLVKRKRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGARPS ALDRFVR
6253	27	1897	EEFCTWIAVRVGEMETAPKPGKDVPPKKDKLQTKRKKPRRYWEE ETVPTTAGASPGPPRNKKNRELRPQRPKNAYILKKSRISKKPQV PKKPREWKNPESQRGLSGAQDPFPGPAPVPVEVVQKFCRIDKSR KLPHSKAKTRSRLEVAEAEEEETSIKAARSELLLAEEPGFLEGE DGEDTAKICQADIVEAVDIASAAKHFDLNLRQFGPYRLNYSRTG RHLAFGGRRGHVAALDWVTKKLMCEINVMEAVRDIRFLHSEALL

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			AVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLLATASE TGFLTYLDVSVGKIVAALNARAGRLDVMSQNPYNAVIHLGHSNG TVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGTYMATSGLDHQL KIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMGDVVNIWA GQGKASPPSLEQPYLTHRLSGPVHGLQFCPFEDVLGVGHTGGIT SMLVPGAGEPNFDGLESNPYRSRKQRQEWEVKALLEKVPAELIC LDPRALAEVDVISLEQGKKEQIERLGYDPQAKAPFQPKPKQKGR SSTASLVKRKRKVMDEEHRDKVRQSLQQQHHKEAKAKPTGARPS ALDRFVR
6254	155	1139	HALGRRGGSQELSAAACGCFALRLRAPGSGRPALAFGAAAFAGL GGAPRFPPRGSAAGRTMLLKEYRICMPLTVDEYKIGQLYMISKH SHEQSDRGEGVEVVQNEPFEDPHHGNGQFTEKRVYLNSKLPSWA RAVVPKIFYVTEKAWNYYPYTITEYTCSFLPKFSIHIETKYEDN KGSNDTIFDNEAKDVEREVCFIDIACDEIPERYYKESEDPKHFK SEKTGRGQLREGWRDSHQPIMCSYKLVTVKFEVWGLQTRVEQFV HKVVRDILLIGHRQAFAWVDEWYDMTMDDVREYEKNMHEQTNIK VCNQHSSPVDDIESHAQTST
6255	1	1444	PTRPQQELLVSLATVIFVASQKALSVESKAVIKQQLESVSNGWT VYRIARQASRMGNHDMAKELYQSLLTQVASKHFYFWLNSLKEFS HAEQCLTGLQEENYSSALSCIAESLKFYHKGIASLTAASTPLNP LSFQCEFVKLRIDLLQAFSQLICTCNSLKTSPPPAIATTIAMTL GNDLQRCGRISNQMKQSMEEFRSLASRYGDLYQASFDADSATLR NVELQQQSCLLISHAIEALILDPESASFQEYGSTGTAHADSEYE RRMMSVYNHVLEEVESLNGKYTPVSYMHTACLCNAIIALLKVPL SFQRYFFQKLQSTSIKLALSPSPRNPAEPIAVQNNQQLALKVEG VVQHGSKPGLFRKIQSVCLNVSSTLQSKSGQDYKIPIDNMTNEM EQRVEPHNDYFSTQFLLNFAILGTHNITVESSVKDANGIVWKTG PRTTIFVKSLEDPYSQQIRLQQQQAQQPLQQQQQRNAYTRF
6256	1	1542	CRGAGAEPAANPRSPRSLVPSLESTSTSVPPAPGTMATDSWALA VDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANAEKTDEEEK EDRAAQSLLNKLIRSNLVDNTNQVEVLQRDPNSPLYSVKSFEEL RLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPPQNLIAQSQSG TGKTAAFVLAMLSQVEPANKYPQCLCLSPTYELALQTGKVIEQM GKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWCSKLK FIDPKKIKVFVLDEADVMIATQGHQDQSIRIQRMLPRNCQMLLF SATFEDSVWKFAQKVVPDPNVIKLKREEETLDTIKQYYVLCSSR DEKFQALCNLYGAITIAQAMIFCHTRKTASWLAAELSKEGHQVA LLSGEMMVEQRAAVIERFREGKEKVLVTTNVCARGIDVEQVSVV INFDLPVDKDGNPDNETYLHRIGRTGRFGKRGLAVNMVDSKHSM NILNRIQEHFNKKIERLDTDDLDEIEKIAN
6257	210	615	AFIPAMAELIQKKLQGEVEKYQQLQKDLSKSMSGRQKLEAQLTE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQLQQEFQRAQAAKAGAPG KA
6258	210	615	AFIPAMAELIQKKLQGEVEKYQQLQKDLSKSMSGRQKLEAQLTE NNIVKEELALLDGSNVVFKLLGPVLVKQELGEARATVGKRLDYI TAEIKRYESQLRDLERQSEQQRETLAQLQQEFQRAQAAKAGAPG KA
6259	2	1540	ILEKGFPSQCHPERKWKVDDVLESSQENEDDHFWELLFHNNKTV SVENGDRGSKTFNLGTDPVSLRNYPYKICDSCEMNLKNISGLII SKKNCSRKKPDEFNVCEKLLLDIRHEKIPIGEKSYKYDQKRNAI NYHQDLSQPSFGQSFEYSKNGQGFHDEAAFFTNKRSQIGETVCK YNECGRTFIESLKLNISQRPHLEMEPYGCSICGKSFCMNLRFGH QRALTKDNPYEYNEYGEIFCDNSAFIIHQGAYTRKILREYKVSD KTWEKSALLKHQIVHMGGKSYDYNENGSNFSKKSHLTQLRRAHT GEKTFECGECGKTFWEKSNLTQHQRTHTGEKPYECTECGKAFCQ

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			KPHLTNHQRTHTGEKPYECKQCGKTFCVKSNLTEHQRTHTGEKP YECNACGKSFCHRSALTVHQRTHTGEKPFICNECGKSFCVKSNL IVHQRTHTGEKPYKCNECGKTFCEKSALTKHQRTHTGEKPYECN ACGKTFSQRSVLTKHQRIHTRVKALSTS
6260	2081	1436	GTGPEIHACAHASARAPGSRAMALRELKVCLLGDTGVGKSSIVW RFVEDSFDPNINPTIGASFMTKTVQYQNELHKFLIWDTAGQERF RALAPMYYRGSAAAIIVYDITKEETFSTLKNWVKELRQHGPPNI VVAIAGNKCDLIDVREVMERDAKDYADSIHAIFVETSAKNAINI NELFIEISRRIPSTDANLPSGGKGFKLRRQPSEPKRSCC
6261	3	1188	FWYRLGPGTRSRWPRRGSWAASLVPRGPSPAALVTSPCPPDPLR SPACEPCRPDFAPRPALLLRSGPRSAPAVTGKPALKGQPGPWPG MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLAS NVQRNRLVQHDLQVAKQLQEEDLKAQAQLQKRYKDLEQQDCEIA QEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKKRKKHFP EFPATRAYADSYYYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDA EIARKLQEEELLATQVDMRAAQVAQDEEIARLLMAEEKKAYKKA KEREKSSLDKRKQDPEWKPKTAKAANSKSKESDEPHHSKNERPA RPPPPIMTDGEDADYTHFTNQQSSTRHFSKSESSHKGFHYKH
6262	2	1759	PECHSQGLCSVHRPGKVPQARMSGLVLGQRDEPAGHRLSQEEIL GSTRLVSQGLEALRSEHQAVLQSLSQTIECLQQGGHEEGLVHEK ARQLRRSMENIELGLSEAQVMLALASHLSTVESEKQKLRAQVRR LCQENQWLRDELAGTQQRLQRSEQAVAQLEEEKKHLEFLGQLRQ YDEDGHTSEEKEGDATKDSLDDLFPNEEEEDPSNGLSRGQGATA AQQGGYEIPARLRTLHNLVIQYAAQGRYEVAVPLCKQALEDLER TSGRGHPDVATMLNILALVYRDQNKYKEAAHLLNDALSIRESTL GPDHPAVAATLNNLAVLYGKRGKYKEAEPLCQRALEIREKVLGT NHPDVAKQLNNLALLCQNQGKYEAVERYYQRALAIYEGQLGPDN PNVARTKNNLASCYLKQGKYAEAETLYKEILTRAHVQEFGSVDD DHKPIWMHAEEREEMSKSRHHEGGTPYAEYGGWYKACKVSSPTV NTTLRNLGALYRRQGKLEAAETLEECALRSRRQGTDPISQTKVA ELLGESDGRRTSQEGPGDSVKFEGGEDASVAVEWSGDGSGTLQR SGSLGKIRDVLRR
6263	1	2408	RELDSLADLPERIKPPYANGLSTSHLRSSSVEDVKLIISEGRPT IEVRRCSMPSVICEHTKQFQTISEESNQGSLLTVPGDTSPSPKP EVFSNVPERDLSNVSNIHSSFATSPTGASNSKYVSADRNLIKNT APVNTVMDSPVHLEPSSQVGVIQNKSWEMPVDRLETLSTRDFIC PNSNIPDQESSLQSFCNSENKVLKENADFLSLRQTELPGNSCAQ DPASFMPPQQPCSFPSQSLSDAESISKHMSLSYVANQEPGILQQ KNAVQIISSALDTDNESTKDTENTFVLGDVQKTDAFVPVYSDST IQEASPNFEKAYTLPVLPSEKDFNGSDASTQLNTHYAFSKLTYK SSSGHEVENSTTDTQVISHEKENKLESLVLTHLSRCDSDLCEMN AGMPKGNLNEQDPKHCPESEKCLLSIEDEESQQSILSSLENHSQ QSTQPEMHKYGQLVKVELEENAEDDKTENQIPQRMTRNKANTMA NQSKQILASCTLLSEKDSESSSPRGRIRLTEDDDPQIHHPRKRK VSRVPQPVQVSPSLLQAKEKTQQSLAAIVDSLKLDEIQPYSSER ANPYFEYLHIRKKIEEKRKLLCSVIPQAPQYYDEYVTFNGSYLL DGNPLSKICIPTITPPPSLSDPLKELFRQQEVVRMKLRLQHSIE REKLIVSNEQEVLRVHYRAARTLANQTLPFSACTVLLDAEVYNV PLDSQSDDSKTSVRDRFNARQFMSWLQDVDDKFDKLKTCLLMRQ QHEAAALNAVQRLEWQLKLQELDPATYKSISIYEIQEFYVPLVD VNDDFELTPI
6264	143	1960	KHRQENNALDMAPEIHMTGPMCLIENTNGELVANPEALKILSAI TQPVVVVAIVGLYRTGKSYLMNKLAGKNKGFSLGSTVKSHTKGI WMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNQNDSWIFTLAVLL SSTLVYNSMGTINQQAMDQLYYVTELTHRIRSKSSPDENENEDS ADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLEYSLKLTQGT

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			SQKDKNFNLPRLCIRKFFPKKKCFVFDLPIHRRKLAQLEKLQDE ELDPEFVQQVADFCSYIFSNSKTKTLSGGIKVNGPRLESLVLTY INAISRGDLPCMENAVLALAQIENSAAVQKAIAHYDQQMGQKVQ LPAETLQELLDLHRVSEREATEVYMKNSFKDVDHLFQKKLAAQL DKKRDDFCKQNQEASSDRCSALLQVIFSPLEEEVKAGIYSKPGG YCLFIQKLQDLEKKYYEEPRKGIQAEEILQTYLKSKESVTDAIL QTDQILTEKEKEIEVECVKAESAQASAKMVEEMQIKYQQMMEEK EKSYQEHVKQLTEKMERERAQLLEEQEKTLTSKLQEQARVLKER CQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI
6265	143	1960	KHRQENNALDMAPEIHMTGPMCLIENTNGELVANPEALKILSAI TQPVVVVAIVGLYRTGKSYLMNKLAGKNKGFSLGSTVKSHTKGI WMWCVPHPKKPEHTLVLLDTEGLGDVKKGDNQNDSWIFTLAVLL SSTLVYNSMGTINQQAMDQLYYVTELTHRIRSKSSPDENENEDS ADFVSFFPDFVWTLRDFSLDLEADGQPLTPDEYLEYSLKLTQGT SQKDKNFNLPRLCIRKFFPKKKCFVFDLPIHRRKLAQLEKLQDE ELDPEFVQQVADFCSYIFSNSKTKTLSGGIKVNGPRLESLVLTY INAISRGDLPCMENAVLALAQIENSAAVQKAIAHYDQQMGQKVQ LPAETLQELLDLHRVSEREATEVYMKNSFKDVDHLFQKKLAAQL DKKRDDFCKQNQEASSDRCSALLQVIFSPLEEEVKAGIYSKPGG YCLFIQKLQDLEKKYYEEPRKGIQAEEILQTYLKSKESVTDAIL QTDQILTEKEKEIEVECVKAESAQASAKMVEEMQIKYQQMMEEK EKSYQEHVKQLTEKMERERAQLLEEQEKTLTSKLQEQARVLKER CQGESTQLQNEIQKLQKTLKKKTKRYMSHKLKI
6266	276	1421	GSHQKQMLVPCFLYSLQNRKPSLYGSLTCQGIGLDGIPEVTASE GFTVNEINKKSIHISCPKENASSKFLAPYTTFSRIHTKSITCLD ISSRGGLGVSSSTDGTMKIWQASNGELRRVLEGHVFDVNCCRFF PSGLVVLSGGMDAQLKIWSAEDASCVVTFKGHKGGILDTAIVDR GRNVVSASRDGTARLWDCGRSACLGVLADCGSSINGVAVGAADN SINLGSPEQMPSEREVGTEAKMLLLAREDKKLQCLGLQSRQLVF LFIGSDAFNCCTFLSGFLLLAGTQDGNIYQLDVRSPRAPVQVIH RSGAPVLSLLSVRDGFIASQGDGSCFIVQQDLDYVTELTGADCD PVYKVATWEKQIYTCCRDGLVRRYQLSDL
6267	3	622	LGMMKKNNSAKRGPQDGNQQPAPPEKVGWVRKFCGKGIFREIWK NRYVVLKGDQLYISEKEVKDEKNIQEVFDLSDYEKCEELRKSKS RSKKNHSKFTLAHSKQPGNTAPNLIFLAVSPEEKESWINALNSA ITRAKNRILDEVTVEEDSYLAHPTRDRAKIQHSRRPPTRGHLMA VASTSTSDGMLTLDLIQEEDPSPEEPTSLC
6268	160	1368	HRELCQNLPAGLSSALIDNPLTLLLSIDTYVMLQEPVTFQDVAV DFSREEWGLLGPTQRTEYRDVMLETFGHLVSVGWETTLENKELA PNSDIPEEEPAPSLKVQESSRDCALSSTLEDTLQGGVQEVQDTV LKQMESAQEKDLPQKKHFDNRESQANSGALDTNQVSLQKIDNPE SQANSGALDTNQVLLHKIPPRKRLRKRDSQVKSMKHNSRVKIHQ KSCERQKAKEGNGCRKTFSRSTKQITFIRIHKGSQVCRCSECGK IFRNPRYFSVHKKIHTGERPYVCQDCGKGFVQSSSLTQHQRVHS GERPFECQECGRTFNDRSAISQHLRTHTGAKPYKCQDCGKAFRQ SSHLIRHQRTHTGERPYACNKCGKAFTQSSHLIGHQRTHNRTKR KKKQPTS
6269	2886	1449	HASAPTRRNMAAASPLRDCHAWKDARLPLSTTSNEACKLFDATL TQYVKWTNDKSLGGIEGCLSKLKAADPTFVMGHAMATGLVLIGT GSSVKLDKELDLAVKTMVEISRTQPLTRREQLHVSAVETFANGN FPKACELWEQILQDHPTDMLALKFSHDAYFYLGYQEQMRDSVAR IYPFWTPDIPLSSYVKGIYSFGLMETNFYDQAEKLAKEALSINP TDAWSVHTVAHIHEMKAEIKDGLEFMQHSETLWKDSDMLACHNY WHWALYLIEKGEYEAALTIYDTHILPSLQANDAMLDVVDSCSML YRLQMEGVSVGQRWQDVLPVARKHSRDHILLFNDAHFLMASLGA HDPQTTQELLTTLRDASESPGENCQHLLARDVGLPLCQALVEAE

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			DGNPDRVLELLLPIRYRIVQLGGSNAQRDVFNQLLIHAALNCTS SVHKNVARSLLMERDALKPNSPLTERLIRKAATVHLMQ
6270	23	2086	SVTVTLGSEGDGRPPTYHLEEMEQEPQNGEPAEIKIIREAYKKA FLFVNKGLNTDELGQKEEAKNYYKQGIGHLLRGISISSKESEHT GPGWESARQMQQKMKETLQNVRTRLEILEKGLATSLQNDLQEVP KLYPEFPPKDMCEKLPEPQSFSSAPQHAEVNGNTSTPSAGAVAA PASLSLPSQSCPAEAPPAYTPQAAEGHYTVSYGTDSGEFSSVGE EFYRNHSQPPPLETLGLDADELILIPNGVQIFFVNPAGEVSAPS YPGYLRIVRFLDNSLDTVLNRPPGFLQVCDWLYPLVPDRSPVLK CTAGAYMFPDTMLQAAGCFVGVVLSSELPEDDRELFEDLLRQMS DLRLQANWNRAEEENEFQIPGRTRPSSDQLKEASGTDVKQLDQG NKDVRHKGKRGKRAKDTSSEEVNLSHIVPCEPVPEEKPKELPEW SEKVAHNILSGASWVSWGLVKGAEITGKAIQKGASKLRERIQPE EKPVEVSPAVTKGLYIAKQATGGAAKVSQFLVDGVCTVANCVGK ELAPHVKKHGSKLVPESLKKDKDGKSPLDGAMVVAASSVQGFST VWQGLECAAKCIVNNVSAETVQTVRYKYGYNAGEATHHAVDSAV NVGVTAYNINNIGIKAMVKKTATQTGHTLLEDYQIVDNSQRENQ EGAANVNVRGEKDEQTKEVKEAKKKDK
6271	32	1058	GCGVKTAGMVGREKELSIHFVPGSCRLVEEEVNIPNRRVLVTGA TGLLGRAVHKEFQQNNWHAVGCGFRRARPKFEQVNLLDSNAVHH IIHDFQPHVIVHCAAERRPDVVENQPDAASQLNVDASGNLAKEA AAVGAFLIYISSDYVFDGTNPPYREEDIPAPLNLYGKTKLDGEK AVLENNLGAAVLRIPILYGEVEKLEESAVTVMFDKVQFSNKSAN MDHWQQRFPTHVKDVATVCRQLAEKRMLDPSIKGTFHWSGNEQM TKYEMACAIADAFNLPSSHLRPITDSPVLGAQRPRNAQLDCSKL ETLGIGQRTPFRIGIKESLWPFLIDKRWRQTVFH
6272	1136	528	GAVMEDAAAPGRTEGVLERQGAPPAAGQGGALVELTPTPGGLAL VSPYHTHRAGDPLDLVALAEQVQKADEFIRANATNKLTVIAEQI QHLQEQARKVLEDAHRDANLHHVACNIVKKPGNIYYLYKRESGQ QYFSIISPKEWGTSCPHDFLGAYKLQHDLSWTPYEDIEKQDAKI SMMDTLLSQSVALPPCTEPNFQGLTH
6273	256	843	SCPRVSPECRSLGCQVMFSLPLNCSPDHIRRGSCWGRFQDLKIA SAAWNSKCHPGAGAAMARQHARTLWYDRPRYVFMEFCVEDSTDV HVLIEDHRIVFSCKNADGVELYNEIEFYAKVNSKDSQDKRSSRS ITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEME LAHVEHYAEVRDNTYCVLPT
6274	56	1142	AAAAMAAAAGGGAGAARSLSRFRGCLAGALLGDCVGSFYEAHDT VDLTSVLRHVQSLEPDFGTPGSERTEALYYTDDTAMARALVQSL LAKEAFDEVDMAHRFAQEYKKDPDRGYGAGVVTVFKKLLNPKCR DVFEPARAQFNGKGSYGNGGAMRVAGISLAYSSVQDVVQKFARLS AQLTHASSLGYNGAILQALAVHLALQGESSSKHFLKQLLGHMED LEGDAQSVLDARELGMEERPYSSRLKKIGELLDQASVTREEVVS ELGNGIAAFESVPTAIYCFLRCMEPDPEIPSAFNSLQRTLIYSI SLGGDTDTIATMAGAIAGAYYGMDQVPESWQQSCEGYEETDILA QSLHRVFQKS
6275	20	565	SRRGRARCLARGSRRPVPRPAKTMAFMVKTMVGGQLKNLTGSLG GGEDKGDGDKSAAEAQGMSREEYEEYQKQLVEEKMERDACFTQR KAERATLRSHFRDKYRLPKNETDESQIQMAGGDVELPRELAKMI EEDTEBEEEEKASVLGQLASLPGLNLGSLKDKACQATLGDLKQSAE KCHVM
6276	797	97	TLLPLPPLPDTEGMILLNTGLEGTVAENPVPIVHTPSGNILTLE SCLQQLATHPGHWGIHLQIAEPAALRPSLALLARLSSLGLLHWP VWVGAKISHGSFSVPGHVAGRELLTAVAEVFPHVTVAPGWPEEV LGSGYREQLLTDMLELCQGLWQPVSFQMQAMLLGHSTAGAIGRL LASSPRATVTVEHNPAGGDYASVRTALLAARAVDRTRVYYRLPQ GYHKDLLAHVGRN

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6277	4600	2744	MAFRTEMGLYYSYFKTIVEAPSFLNGVWMIMNDKLTEYPLVINT LKRFNLYPEVILASWYRIYTKIMDLIGIQTKICWTVTIGEGLSP TESCEGLGDPACFYVAVIFILNGLMMALFFIYGTYLSGSRLGGL VTVLCFFFNHGECTRVMWTPPLRESFSYPFLVLQMLLVTHILRA TKLYRGSLIALCISNVFFMLPWQFAQFVLLTQIASLFAVYVVGY IDICKLRKIIYIHMISLALCFVLMFGNSMLLTSYYASSLVIIWG ILAMKPHFLKINVSELSLWVIQGCFWLFGTVILKYLTSKIFGIA NDAHIGNLLTSKFFSYKDFDTLLYTCAAEFDFMEKETPLRYTKT LLLPVVLVGFVAIVRKIISDMWGVLAKQQTHVRKHQFDHGELVY HALQLLAYTALGILIMRLKLFLTPHMCVMASLICSRQLFGWLFC KVHPGAIVFAILAAMSIQGSANLQTQWNIVGEFSNLPQEELIEW IKYSTKPDAVFAGAMPTMASVKLSALRPIVNHPHYEDAGLRART KIVYSMYSRKAAEEVKRELIKLKVNYYILEESWCVRRSKPGCSM PEIWDVEDPANAGKTPLCNLLVKDSKPHFTTVFQNSVYKVLEVV KE
6278	3	823	ILFRLVLLSLVYLLNSVATEERKPAEVLIVEGQQYAVVGTVLLL IRIILEYCQGVDNIPSVTTDMLTRLSDLLKYFNSRSCQLVLGAG ALQVVGLKTITTKNLALSSRCLQLIVHYIPVIRAHFEARLPPKQ YSMLRHFDHITKDYHDHIAEISAKLVAIMDSLFDKLLSKYEVKA PVPSACFRNICKQMTKMHEAIFDLLPEEQTQMLFLRINASYKLH LKKQLSHLNVINDGGPQNGLVTADVAFYTGNLQALKGLKDLDLN MAEIWEQKR
6279	127	1687	GGAMASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLLHGTL LRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAGEDDDELLAMA AESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQQKPRPEAE PPSPPSGDLRLVKSVSESHTSCPAESASDAAPLCRSQSLPHSAT VTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRR LSWSGIPKPVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFI EHYYDSRNDEVHQDTYRQIHIDIPRMSPEALILQPKVTEIFRRI LFIWAIRHPASGVYQGINDLVTPFFVVFICEYIEAEEVDTVDVS GVPAEVLCNIEADTYWCMSKLLDGIQDNYTFAQPGIQMKVKMLE ELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIR LWDTYQSEPDGFSHFHLYVCAAFLVRWRKEILEEKDFQELLLFL QNLPTAHWDDEDISLLLAEAYRLKFAFADAPNHYKK
6280	857	2515	ECCDQKMGSRNSSSAGSGSGDPSEGLPRRGAGLRRSEEEEEEDE DVDLAQVLAYLLRRGQVRLVQGGGAANLQFIQALLDSEEENDRA WDGRLGDRYNPPVDATPDTRELEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQRERGLCHRGSFSLGEQSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSACQDQTIRLYDCRYGRFRKFKSIKA RDVGWSVLDVAFTPDGNHFLYSSWSDYIHICNIYGEGDTHTALD LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRTLQ IESHEDDVNAVAFADISSQILFSGGDDAICKVWDRRTMREDDPK PVGALAGHQDGITFIDSKGDARYLISNSKDQTIKLWDIRRFSSR EGMEASRQAATQQNWDYRWQQVPKKAWRKLKLPGDSSLMTYRGH GVLHTLIRCRFSPIHSTGQQFIYSGCSTGKVVVYDLLSGHIVKK LTNHKACVRDVSWHPFEEKIVSSSWDGNLRLWQYRQAEYFQDDM PESEECASAPAPVPQSSTPFSSPQ
6281	857	2515	ECCDQKMGSRNSSSAGSGSGDPSEGLPRRGAGLRRSEEEEEEDE DVDLAQVLAYLLRRGQVRLVQGGGAANLQFIQALLDSEEENDRA WDGRLGDRYNPPVDATPDTRELEFNEIKTQVELATGQLGLRRAA QKHSFPRMLHQRERGLCHRGSFSLGEQSRVISHFLPNDLGFTDS YSQKAFCGIYSKDGQIFMSACQDQTIRLYDCRYGRFRKFKSIKA RDVGWSVLDVAFTPDGNHFLYSSWSDYIHICNIYGEGDTHTALD LRPDERRFAVFSIAVSSDGREVLGGANDGCLYVFDREQNRRTLQ IESHEDDVNAVAFADISSQILFSGGDDAICKVWDRRTMREDDPK PVGALAGHQDGITFIDSKGDARYLISNSKDQTIKLWDIRRFSSR

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			EGMEASRQAATQQNWDYRWQQVPKKAWRKLKLPGDSSLMTYRGH GVLHTLIRCRFSPIHSTGQQFIYSGCSTGKVVVYDLLSGHIVKK LTNHKACVRDVSWHPFEEKIVSSSWDGNLRLWQYRQAEYFQDDM PESEECASAPAPVPQSSTPFSSPQ
6282	125	906	RMAACRALKAVLVDLSGTLHIEDAAVPGAQEALKRLRGASVIIR FVTNTTKESKQDLLERLRKLEFDISEDEIFTSLTAARSLLERKQ VRPMLLVDDRALPDFKGIQTSDPNAVVMGLAPEHFHYQILNQAF RLLLDGAPLIAIHKARYYKRKDGLALGPGPFVTALEYATDTKAT VVGKPEKTFFLEALRGTGCEPEEAVMIGDDCRDDVGGAQDVGML GILVKTGKYRASDEEKINPPPYLTCESFPHAVDHILQHLL
6283	140	1043	LSLFGIHVMNPFWSMSTSSVRKRSEGEEKTLTGDVKTSPPRTAP KKQLPSIPKNALPITKPTSPAPAAQSTNGTHASYGPFYLEYSLL AEFTLVVKQKLPGVYVQPSYRSALMWFGVIFIRHGLYQDGVFKF TVYIPDNYPDGDCPRLVFDIPVFHPLVDPTSGELDVKRAFAKWR RNHNHIWQVLMYARRVFYKIDTASPLNPEAAVLYEKDIQLFKSK VVDSVKVCTARLFDQPKIEDPYAISFSPWNPSVHDEAREKMLTQ KKKPEEQHNKSVHVAGLSWVKPGSVQPFSKEEKTVAT
6284	1	2879	RSVIPGSTISSRWPGLSRPRFMAAHEWDWFQREELIGQISDIRV QNLQVERENVQKRTFTRWINLHLEKCNPPLEVKDLFVDIQDGKI LMALLEVLSGRNLLHEYKSSSHRIFRLNNIAKALKFLEDSNVKL VSIDAAEIADGNPSLVLGLIWNIILFFQIKELTGNLSRNSPSSS LAPGSGGTDSDSSFPPTPTAERSVAISVKDQRKAIKALLAWVQR KTRKYGVAVQDFAGSWRSGLAFLAVIKAIDPSLVDMKQALENST RENLEKAFSIAQDALHIPRLLEPEDIMVDTPDEQSIMTYVAQFL ERFPELEAEDIFDSDKEVPIESTFVRIKETPSEQESKVFVLTEN GERTYTVNHETSHPPPSKVFVCDKPESMKEFRLDGVSSHALSDS STEFMHQIIDQVLQGGPGKTSDISEPSPESSILSSRKENGRSNS LPIKKTVHFEADTYKDPFCSKNLSLCFEGSPRVAKESLRQDGHV LAVEVAEEKEQKQESSKIPESSSDKVAGDIFLVEGTNNNSQSSS CNGALESTARHDEESHSLSPPGENTVMADSFQIKVNLMTVEALE EGDYFEAIPLKASKFNSDLIDFASTSQAFNKVPSPHETKPDEDA EAFENHAEKLGKRSIKSAHKKKDSPEPQVKMDKHEPHQDSGEEA EGCPSAPEETPVDKKPEVHEKAKRKSTRPHYEEEGEDDDLQGVG EELSSSPPSSCVSLETLGSHSEECLDFKPSPPLSKVSVIPHDLF YFPHYEVPLAAVLEAYVEDPEDLKNEEMDLEEPEGYMPDLDSRE EEADGSQSSSSSSVPGESLPSASDQVLYLSRGGVGTTPASEPAP LAPHEDHQQRETKENDPMDSHQSQESPNLENIANPLEENVTKES ISSKKKEKRKHVDHVESSLFVAPGSVQSSDDLEEDSSDYSIPSR TSHSDSSIYLRRHTHRSSESDHFSLCSVEERSRSG
6285	2157	1331	SCKTENLLEMWWFQQGLSFLPSALVIWTSAAFIFSYITAVTLHH IDPALPYISDTGTVAPEKCLFGAMLNIAAVLCIATIYVRYKQVH ALSPEENVIIKLNKAGLVLGILSCLGLSIVANFQKTTLFAAHVS GAVLTFGMGSLYMFVQTILSYQMQPKIHGKQVFWIRLLLVIWCG VSALSMLTCSSVLHSGNFGTDLEQKLHWNPEDKGYVLHMITTAA EWSMSFSFFGFFLTYIRDFQKISLRVEANLHGLTLYDTAPCPIN NERTRLLSRDI
6286	1619	276	KAGASCCGSANPYVSVGKSCVLLAMAQLQTRFYTDNKKYAVDDV PFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDFLIKGQFLRM PLDKHMEMENISSEEVVEIEYVEKYTAPQPEQCMFHDDWISSIK GAEEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVKKD SLSCLLLSASMDQTILLWEWNVERNKVKALHCCRGHAGSVDSIA VDGSGTKFCSGSWDKMLKIWSTVPTDEEDEMEESTNRPRKKQKT EQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSASWDHTIRVWD VESGSLKSTLTGNKVFNCISYSPLCKRLASGSTDRHIRLWDPRT KDGSLVSLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIVKLWDT RSCKAPLYDLAAHEDKVLSVDWTDTGLLLSGGADNKLYSYRYSP

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			TTSHVGA
6287	278	1482	MQFFFNFQIGLRSTSGKEKYSGDAGFLGDALCLFLQCLALDEDF APAKLQVQKILCDLLLPENLKEGLKESSWSSLPCTKNRPFDFHS VMEESQSLNEPSPKQSEEIPEVTSEPVKGSLNRAQSAQSINSTE MPAREDCLKRVSSEPVLSVQEKGVLLKRKLSLLEQDVIVNEDGR NKLKKQGETPNEVCMFSLAYGDIPEELIDVSDFBCSLCMRLFFE PVTTPCGHSFCKNCLERCLDHAPYCPLCKESLKEYLADRRYCVT QLLEELIVKYLPDELSERKKIYDEETAELSHLTKNVPIFVCTMA YPTVPCPLHVFEPRYRLMIRRSIQTGTKQFGMCVSDTQNSFADY GCMLQIRNVHFLPDGRSVVDTVGGKRFRVLKRGMKDGYCTADIE YLEDV
6288	1	743	VTLYPCRGLVGNLLLGASGMASGCKIGPSILNSDLANLGAECLR MLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMM PKVHWLRTQFPSLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIM RSEDPRSVINLLRNVCSEAAQKRSLDR
6289	1	743	VTLYPCRGLVGNLLLGASGMASGCKIGPSILNSDLANLGAECLR MLDSGADYLHLDVMDGHFVPNITFGHPVVESLRKQLGQDPFFDM HMMVSKPEQWVKPMAVAGANQYTFHLEATENPGALIKDIRENGM KVGLAIKPGTSVEYLAPWANQIDMALVMTVEPGFGGQKFMEDMM PKVHWLRTQFPSLDIEVDGGVGPDTVHKCAEAGANMIVSGSAIM RSEDPRSVINLLRNVCSEAAQKRSLDR
6290	3	1856	TLGRWLLGVYETVAPTLACLPRPRLRRRRRRRRRRRMISRYTRKA VPQSLELKGITKHALNHHPPPEKLEEISPTSDSHEKDTSSQSKS DITRESSFTSADTGNSLSAFPSYTGAGISTEGSSDFSWGYGELD QNATEKVQTMFTAIDELLYEQKLSVHTKSLQEECQQWTASFPHL RILGRQIITPSEGYRLYPRSPSAVSASYETTLSQERDSTIFGIR GKKLHFSSSYAHKASSIAKSSSFCSMERDEEDSIIVSEGIIEEY LAFDHIDIEEGFHGKKSEAATEKQKLGYPPIAPFYCMKEDVLAY VFDSVWCKVVSCMEQLTRSHWEGFASDDESNVAVTRPDSESSCV LSELHPLVLPRVPQSKVLYITSNPMSLCQASRHQPNVNDLLVHG MPLQPRNLSLMDKLLDLDDKLLMRPGSSTILSTRNWPNRAVEFS TSSLSYTVQSTRRRNPPPRTLHPISTSHSCAETPRSVEEILRGA RVPVAPDSLSSPSPTPLSRNNLLPPIGTAEVEHVSTVGPQRQMK PHGDSSRAQSAVVDEPNYQQPQERLLLPDFFPRPNTTQSFLLDT QYRRSCAVEYPHQARPGRGSAGPQLHGSTKSQSGGRPVSRTRQG P
6291	1732	602	LVAKMASSASARTPAGKRVINQEELRRLMKEKQRLSTSRKRIES PFAKYNRLGQLSCALCNTPVKSELLWQTHVLGKQHREKVAELKG AKEASQGSSASSAPQSVKRKAPDADDQDVKRAKATLVPQVQPST SAWTTNFDKIGKEFIRATPSKPSGLSLLPDYEDEEEEEEEEGD GERKRGDASKPLSDAQGKEHSVSSSREVTSSVLPNDFFSTNPPK APIIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARV RKVDAPKDQMDKEWDEFQKAMRQVNTISEAIVAEEDEEGRLDRQ IGEIDEQIECYRRVEKLRNRQDEIKNKLKEILTIKELQKKEEEN ADSDDEGELQDLLSQDWRVKGALL
6292	1835	1142	TCPGAMKMVAPWTRFYSNSCCLCCHVRTGTILLGVWYLIINAVV LLILLSALADPDQYNFSSSELGGDFEFMDDANMCIAIAISLLMI LICAMATYGAYKQRAAWIIPFFCYQIFDFALNMLVAITVLIYPN SIQEYIRQLPPNFPYRDDVMSVNPTCLVLIILLFISIILTFKGY LISCVWNCYRYINGRNSSDVLVYVTSNDTTVLLPPYDDATVNGA AKEPPPPYVSA
6293	2382	1035	FWCTLGTVTVDVHPIGWCAINSKILVPPRTIHAKFTDWKGYLMKRL VGSRTLPVDFHIKMVESMKYPFRQGMRLEVVDKSQVSRTRMAVV DTVIGGRLRLLYEDGDSDDDFWCHMWSPLIHPVGWSRRVGHGIK

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			MSERRSDMAHHPTFRKIYCDAVPYLFKKVRAVYTEGGWFEEGMK LEAIDPLNLGNICVATVCKVLLDGYLMICVDGGPSTDGLDWFCY HASSHAIFPATFCQKNDIELTPPKGYEAQTFNWENYLEKTKSKA APSRLFNMDCPNHGFKVGMKLEAVDLMEPRLICVATVKRVVHRL LSIHFDGWDSEYDQWVDCESPDIYPVGWCELTGYQLQPPVAAEP ATPLKAKEATKKKKKQFGKKRKRIPPTKTRPLRQGSKKPLLEDD PQGARKISSEPVPGEIIAVRVKEEHLDVASPDKASSPELPVSVE NIKQETDD
6294	354	1814	AQLTTRGRTVAGGVRWIPSPFPDLELYSCCLGTDRGFPELSHHC KNVIATASDYDMAEITNIRPSFDVSPVVAGLIGASVLVVCVSVT VFVWSCCHQQAEKKHKNPPYKFIHMLKGISIYPETLSNKKKIIK VRRDKDGPGREGGRRNLLVDAAEEAGLLSRDKDPRGPSSGSCIDQ LPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGSLTFSV DYNFPKKALVVTIQEAHGLPVMDDQTQGSDPYIKMTILPDKRHR VKTRVLRKTLDPVFDETFTFYGIPYSQLQDLVLHFLVLSFDRFS RDDVIGEVMVPLAGVDPSTGKVQLTRDIIKRNIQKCISRGELQV SLSYQPVAQRMTVVVLKARHLQKMDIAGLSGNPYVKVNVYYGRK RIAKKKTHVKKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFD RTTKNEVVGRLILGAHSVTASGAEHWREVCESPRKPVAKWHSLS EY
6295	2795	617	VSSALLTGATSGSDAAKSEGASASPLSCTNAVAMDRPDEGPPAK TRRLSSSESPQRDPPPPPPPPPLLRLPLPPPQQRPRLQEETEAA QVLADMRGVGLGPALPPPPPYVILEEGGIRAYFTLGAECPGWDS TIESGYGEAPPPTESLEALPTPEASGGSLEIDFQVVQSSSFGGE GALETCSAVGWAPQRLVDPKSKEEAIIIVEDEDEDERESMRSSR RRRRRRRRKQRKVKRESRERNAERMESILQALEDIQLDLEAVNI KAGKAFLRLKRKFIQMRRPFLERRDLIIQHIPGFWVKAFLNHPR ISILINRRDEDIFRYLTNLQVQDLRHISMGYKMKLYFQTNPYFT NMVIVKEFQRNRSGRLVSHSTPIRWHRGQEPQARRHGNQDASHS FFSWFSNHSLPEADRIAEIIKNDLWVNPLRYYLRERGSRIKRKK QEMKKRKTRGRCEVVIMEDAPDYYAVEDIFSEISDIDETIHDIK ISDFMETTDYFETTDNEITDINENICDSENPDHNEVPNNETTDN NESADDHETTDNNESADDNNENPEDNNKNTDDNEENPNNNENTY GNNFFKGGFWGSHGNNQDSSDSDNEADEASDDEDNDGNEGDNEG SDDDGNEGDNEGSDDDDRDIEYYEKVIEDFDKDQADYEDVIEII SDESVEEEGIEEGIQQDEDIYEEGNYEEEGSEDVWEEGEDSDDS DLEDVLQVPNGWANPGKRGKTG
6296	727	1199	RHCGCDAQGACDSLPPTGTSSPVTARNAIPEARCCVWLLDGTTV EAVRPARERLARKELRQKRMQQFSRDSAYSSNKDSTCLLTERDT LGTSLQFPSPFSGTISFGSFSDSGIFPLGSQCCLGFQQFSISGK KWALIHKRVRLSVFGARWGRIYFGK
6297	1	922	QRAAAASPSSCGPRGAEYGALMAMEGYWRFLALLGSALLVGFLS VIFALVWVLHYREGLGWDGSALEFNWHPVLMVTGFVFIQGIAII VYRLPWTWKCSKLLMKSIHAGLNAVAAILAIISVVAVFENHNVN NIANMYSLHSWVGLIAVICYLLQLLSGFSVFLLPWAPLSLRAFL MPIHVYSGIVIFGTVIATALMGLTEKLIFSLRDPAYSTFPPEGV FVNTLGLLILVFGALIFWIVTRPQWKRPKEPNSTILHPNGGTEQ GARGSMPAYSGNNMDKSDSELNNEVAARKRNLALDEAGQRSTM
6298	3	985	SVPLRRLSLSGTLQGAGTTTKMAVARLAAVAAWVPCRSWGWAAV PFGPHRGLSVLLARIPQRAPRWLPACRQKTSLSFLNRPDLPNLA YKKLKGKSPGIIFIPGYLSYMNGTKALAIEEFCKSLGHACIRFD YSGVGSSDGNSEESTLGKWRKDVLSIIDDLADGPQILVGSSLGG WLMLHAAIARPEKVVALIGVATAADTLVTKFNQLFVELKKEVEM KGVWSMPSKYSEEGVYNVQYSFIKEABHHCLLHSPIPVNCPIRL LHGMKDDIVPWHTSMQVADRVLSTDVDVILRKHSDHRMREKADI QLLVYTIDDLIDKLSTIVN

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6299	512	814	ECDLEGIMPNVTISLSLPTNGSPLQDILVHPCVTSLDSAILTSS SIDAMDDSAFSGPYKFPFTPPLESFNLCFYTSQVPVPPILGFYQ MKEEEVQLRNNH
6300	121	692	AAPSCWSQRGVPAAGTPSSPRLLVSRAAAPSAGPWCAWRQGARA AQSPFSIPNSSSVPYGSQDSVHSSPEDGGGGRDRPVGGSPGGPR LVIGSLPAHLSPHMFGGFKCPVCSKFVSSDEMDLHLVMCLTKPR ITYNEDVLSKDAGECAICLEELQQGDTIARLPCLCIYHKGCIDE WFEVNRSCPEHPSD
6301	616	284	GKFVPVNWEPPQPLPFPKYLRCYRCLLETKELGCLLGSDICLTP AGSSCITLHKKNSSGSDVMVSDCRSKEQMSDCSNTRTSPVSGFW IFSQYCFLDFCNDPQNRGLYTP
6302	490	745	IFGFLHLFHMEHSFLLVCALFAHVFFSSSCGSSVALHSDPCLLS PVLLNCLPGDLRPLDELYAQKLKYKAISEELDHALNDMTSL
6303	2	1961	YWNEYGGGLLWQSWQEKHPGQALSSEPWNFPDTKEEWEQHYSQL YWYYLEQFQYWEAQGWTFDASQSCDTDTYTSKTEADDKNDEKCM KVDLVSFLSSPIMGDNDSSGTSEKDHSEILDGISNIKLNSEEVT QSQLDSCTSHDGHQQLSEVSSKRECPASGQSEPRNCGTNEESNS SGNTNTDPPAEDSQKSSGANTSKDRPHASGTDGDESEEDPPEHK PSKLKRSHELDIDENPASDFDDSGSLLGFKYGSGQKYGGIPNFS HRQVRYLEKNVKLKSKYLDMRRQIKMKNKHIFFTKESEKPFFKK SKILSKVEKFLTWVNKPMDEEASQESSSHDNGHDASTSCDSEEQ DMSVKKGDDLLETNNPEPEKCQSVSSAGELETENYERDSLLATV PDEQDCVTQEVPDSRQAETEAEVKKKKNKKKNKKVNGLPPEIAA VPELAKYWAQRYRLFSRFDDGIKLDREGWFSVTPEKIAEHIAGR VSQSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDIDPVKIALA RNNAEVYGIADKIEFICGDFLLLASFLKADVVFLSPPWGGPDYA TAETFDIRTMMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVAS LAGPGGQVEIEQNFLNNKLKTITAYFGDLIRRPASET
6304	1	1438	HRARVDRSRESPGGDLRHPGRVRRDITLSGHPRLSTQHVVLLRE DEVGDPGTKDLGHPQHGSPIQETQSEVVTLVSPLPGSDMAALPA WRATSGLTLWPHTAEGRDLLGAENRALTGGQQABDPTLASGAYQ WPGSVEKLQGSVWCDAETLLSSSRTGGQAPPWLTDHDVQMLRLL AQGEVVDKARVPAHGQVLQVGFSTEAALQDLSSPRLSQLCSQGL CGLIKRPGDLPEVLSFHVDRVLGLRRSLPAVARRFHSPLLPYRY TDGGARPVIWWAPDVQHLSDPDEDQNSLALGWLQYQALLAHSCN WPGQAPCPGIHHTEWARLALFDFLLQVHDRLDRYCCGFEPEPSD PCVEERLREKCRNPAELRLVHILVRSSDPSHLVYIDNAGNLQHP EDKLNFRLLEGIDGFPESAVKVLASGCLQNMLLKSLQMDPVFWE SQGGAQGLKQVLQTLEQRGQVLLGHIQKHNLTLFRDEDP
6305	99	420	NMIWRGRSTYRPRPRRSVPPPELIGPMLEPGDEEPQQEEPPTES RDPAPGQEREEDQGAAETQVPDLEADLQELSQSKTGDECGDGPD VQGKILTKSEQFKMPEGR
6306	1	1874	PTRPSKVKVPHTFLIHSYTRPTVCQACKKLLXGLFRQGLQCKDC KFNCHKRCATRVPNDCLGEALINGDVPMEEATDFSEADKSALMD ESEDSGVIPGSHSENALHASEEEEGEGGKAQSSLGYIPLMRVVQ SVRHTTRKSSTTLREGWVVHYSNKDTLRKRHYWRLDCKCITLFQ NNTTNRYYKEIPLSEILTVESAQNFSLVPPGTNPHCFEIVTANA TYFVGEMPGGTPCGPSGQGAEAARGWETAIRQALMPVILQDAPS APGHAPHRQASLSISVSNSQIQENVDIATVYQIFPDEVLGSGQF GVVYGGKHRKTGRDVAVKVIDKLRFPTKQESQLRNEVAILQSLR HPGIVNLECMFETPEKVFVVMEKLHGDMLEMILSSEKGRLPERL TKFLITQILVALRHLHFKNIVHCDLKPENVLLASADPFPQVKLC DFGFARIIGEKSFRRSVVGTPAYLAPEVLLNQGYNRSLDMWSVG VIMYVSLSGTFPFNEDEDINDQIQNAAFMYPASPWSHISAGAID LINNLLQVKMRKRYSVDKSLSHPWLQEYQTWLDLRELEGKMGER YITHESDDARWEQFAAEHPLPGSGLPTDRDLGGACPPQDHDMQG

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			LAERISVL
6307	2136	589	CFLLPRGRDPEPPEAGAAAPCAPGAPDMSFRKVVRQSKFRHVFG QPVKNDQCYEDIRVSRVTWDSTFCAVNPKFLAVIVEASGGGAFL VLPLSKTGRIDKAYPTVCGHTGPVLDIDWCPHNDEVIASGSEDC TVMVWQIPENGLTSPLTEPVVVLEGHTKRVGIIAWHPTARNVLL SAGCDNVVLIWNVGTAEELYRLDSLHPDLIYNVSWNHNGSLFCS ACKDKSVRIIDPRRGTLVAEREKAHEGARPMRAIFLADGKVFTT GFSRMSERQLALWDPENLEEPMALQELDSSNGALLPFYDPDTSV VYVCGKGDSSIRYFEITEEPPYIHFLNTFTSKEPQRGMGSMPKR GLEVSKCEIARFYKLHERKCEPIVMTVPRKSDLFQDDLYPDTAG PEAALEAEEWVSGRDADPILISLREAYVPSKQRDLKISRRNVLS DSRPAMAPGSSHLGAPASTTTAADATPSGSLARAGEAGKLEEVM QELRALRALVKEQGDRICRLEEQLGRMENGDA
6308	2	1118	GRPTRPEKMLLSLVLHTYSMRYLLPSVVLLGTAPTYVLAWGVWR LLSAFLPARFYQALDDRLYCVYQSMVLFFFENYTGVQILLYGDL PKNKENIIYLANHQSTVDWIVADILAIRQNALGHVRYVLKEGLK WLPLYGWYFAQHGGIYVKRSAKFNEKEMRNKLQSYVDAGTPMYL VIFPEGTRYNPEQTKVLSASQAFAAQRGLAVLKHVLTPRIKATH VAFDCMKNYLDAIYDVTVVYEGKDDGGQRRESPTMTEFLCKECP KIHIHIDRIDKKDVPEEQEHMRRWLHERFEIKDKMLIEFYESPD PERRKRFPGKSVNSKLSIKKTLPSMLILSGLTAGMLMTDAGRKL YVNTWIYGTLLGCLWVTIKA
6309	220	563	LVAEVKEPCSLPMLSVDMENKENGSVGVKNSMENGRPPDPADWA VMDVVNYFRTVGFEEQASAFQEQEIDGKSLLLMTRNDVLTGLQL KLGPALKIYEYHVKPLQTKHLKNNSS
6310	36	979	GPRCWKFLILSSVNCETLRIGKAWPQSSGQERYWTPRTHSSASE AQRGSLAELNVAAAGLWADCDQPLYDCPMCGLICTNYHILQEHV DLHLEENSFQQGMDRVQCSGDLQLAHQLQQEEDRKRRSEESRQE IEEFQKLQRQYGLDNSGGYKQQQLRNMEIEVNRGRMPPSEFHRR KADMMESLALGFDDGXTKTSGIIEALHRYYQNAATDVRRVWLSS VVDHFHSSLGDKGWGCGYRNFQMLLSSLLQNDAYNDCLKGMLIP CIPKIQSMIEDAWKEGFDPQGASQLIIRLQGTKAWIGACEVYIL LTSLRV
6311	1	675	PVWWNSCEGPRLAAAARTGHGVGRRARLACLGEPRVKAAVMLTL ASKLKRDDGLKGSRTAATASDSTRRVSVRDKLLVKEVAELEANL PCTCKVHFPDPNKLHCFQLTVTPDEGYYQGGKFQFETEVPDAYN MVPPKVKCLTKIWHPNITETGEICLSLLREHSIDGTGWAPTRTL KDVVWGLNSLFTDLLNFDDPLNIEAAEHHLRDKEDFRNKVDDYI KRYAR
6312	213	1400	GDELVKREAGMKMLPGVGVFGTGSSARVLVPLLRAEGFTVEALW GKTEEEAKQLAEEMNIAFYTSRTDDILLHQDVDLVCISIPPPLT RQISVKALGIGKNVVCEKAATSVDAFRMVTASRYYPQLMSLVGN VLRFLPAFVRMKQLISEHYVGAVMICDARIYSGSLLSPSYGWIC DELMGGGGLHTMGTYIVDLLTHLTGRRAEKVHGLLKTFVRQNAA IRGIRHVTSDDFCFFQMLMGGGVCSTVTLNFNMPGAFVHEVMVV GSAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQD VPLLYLKGMVYMVQALRQSFQGQGDRRTWDRTPVSMAASFEDGL YMQSVVDAIKRSSRSGEWEAVEVLTEEPDTNQNLCEALQRNNL
6313	2	2071	QRSGAARLAFLPSPFSPACVHRSPLSFHGCWFYFVVVFMPLGVL FHRRAHGCTLSCSSFVEQPTAMEABETMECLQEFPEHHKMILD RLNEQREQDRFTDITLIVDGHHFKAHKAVLAACSKFFYKFFQEF TQEPLVEIEGVSKMAFRHLIEFTYTAKLMIQGEEEANDVWKAAE FLQMLEAIKALEVRNKENSAPLEENTTGKNEAKKRKIAETSNVI TESLPSAESEPVEIEVEIAEGTIEVEDEGIETLEEVASAKQSVK YIQSTGSSDDSALALLADITSKYRQGDRKGQIKEDGCPSDPTSK QVEGIEIVELQLSHVKDLFHCEKCNRSFKLFYHFKEHMKSHSTE

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			SFKCEICNKRYLRESAWKQHLNCYHLEEGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKEHLRKHTGEKPFECPNCHERFARNSTLKCH LTACQTGVGAKKGRKKLYECQVCNSVFNSWDQFKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISERLVTEEVLSVETRVQ TEPVTSMTIIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSELPEQVQVSYLEVGRIQTEEGTEVHVEELHVERVNQ MPVEVQTELLEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVLE
6314	2	2071	QRSGAARLAFLPSPFSPACVHRSPLSFHGCWFYFVVVFMPLGVL FHRRRAHGCTLSCSSFVEQPTAMEAEETMECLQEFPEHHKMILD RLNEQREQDRFTDITLIVDGHHFKAHKAVLAACSKFFYKFFQEF TQEPLVEIEGVSKMAFRHLIEFTYTAKLMIQGEEEANDVWKAAE FLQMLEAIKALEVRNKENSAPLEENTTGKNEAKKRKIAETSNVI TESLPSAESEPVEIEVEIAEGTIEVEDEGIETLEEVASAKQSVK YIQSTGSSDDSALALLADITSKYRQGDRKGQIKEDGCPSDPTSK QVEGIEIVELQLSHVKDLFHCEKCNRSFKLFYHFKEHMKSHSTE SFKCEICNKRYLRESAWKQHLNCYHLEEGGVSKKQRTGKKIHVC QYCEKQFDHFGHFKEHLRKHTGEKPFECPNCHERFARNSTLKCH LTACQTGVGAKKGRKKLYECQVCNSVFNSWDQFKDHLVIHTGDK PNHCTLCDLWFMQGNELRRHLSDAHNISERLVTEEVLSVETRVQ TEPVTSMTIIEQVGKVHVLPLLQVQVDSAQVTVEQVHPDLLQDS QVHDSHMSELPEQVQVSYLEVGRIQTEEGTEVHVEELHVERVNQ MPVEVQTELLEADLDHVTPEIMNQEERESSQADAAEAAREDHED AEDLETKPTVDSEAEKAENEDRTALPVLE
6315	1	1015	LGLAVNVVTTLVLISYCPTATEEAPYWTYLLCALGLFIYQSLDA IDGKQARRTNSCSPLGELFDHGCDSLSTVFMAVGASIAARLGTY PDWFFSCSFIGMFVFYCAHWQTYVSGMLRFGKVDVTEIQIALVI VFVLSAFGGATMWDYTIPILEIKLKILPVLGFLGGVIFSCSNYF HVILHGGVGKNGSTIAGTSVLSPGLHIGLIIILAIMIYKKSATD VFEKHPCLYILMFGCVFAKVSQKLVVAHMTKSELYLQDTVFLGP GLLFLDQYFNNFIDEYVVLWMAMVISSFDMVIYFSALCLQISRH LHLNIFKTACHQAPEQVQVLSSKSHQNNMD
6316	1503	792	VSAGAGTGIMGGTTSTRRVTFEADENENITVVKGIRLSENVIDR MKESSPSGSKSQRYSGAYGASVSDEBLKRRVAEELALEQAKKES EDQKRLKQAKELDRERAAANEQLTRAILRERICSEEERAKAKHL ARQLEEKDRVLKKQDAFYKEQLARLEERSSEFYRVTTEQYQKAA EEVEAKFKRYESHPVCADLQAKILQCYRENTHQTLKCSALATQY MHCVNHAKQSMLEKGG
6317	102	839	PEAQTSAVLAREKGHLPTMRHEAPMQMASAQDARYGQKDSSDQN FDYMFKLLIIGNSSVGKTSFLFRYADDSFTSAFVSTVGIDFKVK TVFKNEKRIKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITN EESFNAVQDWSTQIKTYSWDNAQVILVGNKCDMEDERVISTERG QHLGEQLGFEFFETSAKDNINVKQTFERLVDIICDKMSESLETD PAITAAKQNTRLKETPPPQPNCAC
6318	1765	733	PWHPLRTLPLHHPHPRPPRAEGREGADSMSHLPGLELRRREAPPL LGPLLSPFPLPAGSWHRQMLRSSLRFPITNSAGAPCKAAGRMNI LAPVRRDRVLAELPQCLRKEAALHGHKDFHPRVTCACQEHRTGT VGFKISKVIVVGDLSVGKTCLINRFCKDTFDKNYKATIGVDFEM ERFEVLGIPFSLQLWDTAGQERFKCIASTYYRGAQAIIIVFNLN DVASLEHTKQWLADALKENDPSSVLLFLVGSKKDLSTPAQYALM EKDALQVAQEMKAEYWAVSSLTGENVREFFFRVAALTFEANVLA ELEKSGARRIGDVVRINSDDSNLYLTASKKKPTCCP
6319	88	717	AATMRLNQNTLLLGKKVVLVPYTSEHVPSRYHEWMKSEELQRLT ASEPLTLEQQEYAMQCSWQEDADKCTFIVLDAEKWQAQPGATEES CMVGDVNLFLTDLEDLTLGEIEVMIAEPSCRGKGLGTEAVLAML SYGVTTLGLTKFEAKIGQGNEPSIRMFQKLHFEQVATSSVFQEV

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			TLRLTVSESEHQWLLEQTSHVEEKPYRDGSAEPC
6320	90	1111	RPRTGREKVAMAAVDSFYLLYREIARSCNCYMEALALVGAWYTA RKSITVICDFYSLIRLHFIPRLGSRADLIKQYGRWAVVSGATDG IGKAYAEELASRGLNIILISRNEEKLQVVAKDIADTYKVETDII VADFSSGREIYLPIREALKDKDVGILVNNVGVFYPYPQYFTQLS EDKLWDIINVNIAAASLMVHVVLPGMVERKKGAIVTISSGSCCK PTPQLAAFSASKAYLDHFSRALQYEYASKGIFVQSLIPFYVATS MTAPSNFLHRCSWLVPSPKVYAHHAVSTLGISKRTTGYWSHSIQ FLFAQYMPEWLWVWGANILNRSLRKEALSCTA
6321	1418	341	HRKAALGALMAGRLLGKALAAVSLSLALASVTIRSSRCRGIQAF RNSFSSSWFHLNTNVMSGSNGSKENSHNKARTSPYPGSKVERSQ VPNEKVGWLVEWQDYKPVEYTAVSVLAGPRWADPQISESNFSPK FNEKDGHVERKSKNGLYEIENGRPRNPAGRTGLVGRGLLGRWGP NHAADPIITRWKRDSSGNKIMHPVSGKHILQFVAIKRKDCGEWA IPGGMVDPGEKISATLKREFGEEALNSLQKTSAEKREIEEKLHK LFSQDHLVIYKGYVDDPRNTDNAWMETEAVNYHDETGEIMDNLM LEAGDDAGKVKWVDINDKLKLYASHSQFIKLVAEKRDAHWSEDS EADCHAL
6322	2047	1083	NQEILKNVESSRTVQPHFLEFLLSLGWSVDVGRHPGWTGHVSTS WSINCCDDGEGSQQBEVISSEDIGASIFNGQKKVLYYADALTEI AFVVPSPVESLTDSLESNISDQDSDSNMDLMPGILKQPSLTLEL FPNHTDNLNSSQRLSPSSRMRKLPQGRPVPPLGPETRVSVVWVE RYDDIENFPLSELMTEISTGVETTANSSTSLRSTTLEKEVPVIF IHPLNTGLFRIKIQGATGKFNMVIPLVDGMIVSRRALGFLVRQT VINICRRKRLESDSYSPPHVRRKQKITDIVNKYRNKQLEPEFYT SLFQEVGLKNCSS
6323	1	656	PASTTDGAQEARVPLDGAFWIPRPPAGSPKGCFACVSKPPALQA PAAPAPEPSASPPMAPTLFPMESKSSKTDSVRAAGAPPACKHLA EKKTMTNPTTVIEVYPDTTEVNDYYLWSIFNFVYLNFCCLGFIA LAYSLKVRDKKLLNDLNGAVEDAKTDRLINITRSGLAASCIMLW MALSVIATHRGLRSSASILVAEPHDWNTERPQVTFRERCPAL
6324	1	2061	EGAGMRRCPCRGSLNEAEAGALPAAARMGLEAPRGGRRRQPGQQ RPGPGAGAPACRPECGGPWARTEGSSLHSEPERAGLGPAPGTES PQAEFWTDGQTEPAAAGLGVBTERPKQKTEPDRSSLRTHLEWSW SELGTTCLWTETGTDGLWTDPHRSDLQFQPEEASPWTQPGVHGP WTELETHGSQTQPERVKSWADNLWTHQNSSSLQTHPEGACPSKE PSADGSWKELYTDGSRTQQDIEGPWTEPYTDGSQKKQDTEAARK QPGTGGFQIQQDTDGSWTQPSTDGSQTAPGTDCLLGEPEDGPLE EPEPGELLTHLYSHLKCSPLCPVPRLIITPETPEPEAQPVGPPS RVEGGSGGFSSASSFDESEDDVVAGGGGASDPEDRSGSKPWKKL KTVLKYSPFVVSFRKHYPWVQLSGHAGNFQAGEDGRILKRFCQC EQRSLEQLMKDPLRPFVPAYYGMVLQDGQTFNQMEDLLADFEGP SIMDCKMGSRTYLEEELVKARERPRPRKDMYEKMVAVDPGAPTP EEHAQGAVTKPRYMQWRETMSSTSTLGFRIEGIKKADGTCNTNF KKTQALEQVTKVLEDFVDGDHVILQKYVACLEELREALEISPFF KTHEVVGSSLLFVHDHTGLAKVWMIDFGKTVALPDHQTLSHRLP WAEGNREDGYLWGLDNMICLLQGLAQS
6325	165	944	GLRDPFRRKRRLKPQVKMSNYVNDMWPGSPQEKDSPSTSRSGGS SRLSSRSRSRSFSRSSSRHSRVSSRFSSRSRRSKSRSRSRRRHQ RKYRRYSRSYSRSRSRSRSRRYRERRYGFTRRYYRSPSRYRSRS RSRSRSRGRSYCGRAYAIARGQRYYGFGRTVYPEEHSRWRDRSR TRSRSRTPFRLSEKDRMELLEIAKTNAAKALGTTNIDLPASLRT VPSAKETSRGIGVSSNGAKPEVSILGLSEQNFQKANCQI
6326	238	680	GEPSPATQQKPSATGAGVLHQHFSSGHIYVLMGLLPPPWTISFT VQTTLQPPGGLPAAPVSGRMAFEPVGRDLARRMVPRAGKRTQTL GARRVAAQGARPLPEDRRPKSGERLHVTVAPCWEFVLPSVSLTA

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			QAWGGVGQEASSGVP
6327	1	1337	SLARLAPAGGSVVMPTQQPAAPSTRAPKPSRSLSGSLCALFSDA DSGSGMKAELPPGPGAVGREMTKEEKLQLRKEKKQQKKKRKEEK GAEPETGSAVSAAQCQGPTRELPESGIQLGTPREKVPAGRSKAE LRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKR LPEYPQVDDLLLRRLVKKPERQQVPTRKDYGSKVSLFSHLPQYS RQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVRGSNARCIALLR ALQQVIQDYTTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHN AIKFLNKEITSVGSSKREEEAKSELRAAIDRYVQEKIVLAAQAI SRFAYQKISNGDVILVYGCSSLVSRILQEAWTEGRRFRVVVVDS RPWLEGRHTLRSLVHAGVPASYLLIPAASYVLPEVSTEEKDSKV GGEKV
6328	1030	276	HASAEVTTAAARGLGAMEEEMHTDAKIRAENGTGSSPRGPGCSL RHFACEQNLLSRPDGSASFLQGDTSVLAGVYGPAEVKVSKEIFN KATLEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSI TVVLQVVSDAGSLLACCLNAACMALVDAGVPMRALFCGVACALD SDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDT ELQQCLAAAQAASQHVFRFYRESLQRRYSKS
6329	3	2016	SSEVAAGGGTRSAMAEGSGEVVTVSATGAANGLNNGAGGTSATT SNPLSRKLHKILETRLDNDKEMLEALKALSTFFVENSLRTRRNL RGDIERKSLAINEEFVSIFKEVKEELESISEDVQAMSNCCQDMT SRLQAAKEQTQDLIVKTTKLQSESQKLEIRAQVADAFLSKFQLT SDEMSLLRGTREGPITEDFFKALGRVKQIHNDVKVLLRTNQQTA GLEIMEQMALLQETAYERLYRWAQSECRTLTQESCDVSPVLTQA MEALQDRPVLYKYTLDEFGTARRSTVVRGFIDALTRGGPGGTPR PIEMHSHDPLRYVGDMLAWLHQATASEKEHLEALLKHVTTQGVE ENIQEVVGHITEGVCRPLKVRIEQVIVAEPGAVLLYKISNLLKF YHHTISGIVGNSATALLTTIEEMHLLSKKIFFNSLSLHASKLMD KVELPPPDLGPSSALNQTLMLLREVLASHDSSVVPLDARQADFV QVLSCVLDPLLQMCTVSASNLGTADMATFMVNSLYMMKTTLALF EFTDRRLEMLQFQIEAHLDTLINEQASYVLTRVGLSYIYNTVQQ HKPEQGSLANMPNLDSVTLKAAMVQFDRYLSAPDNLLIPQLNFL LSATVKEQIVKQSTELVCRAYGEVYAAVMNPINEYKDPENILHR SPQQVQTLLS
6330	1151	333	FFYYTFYENKTFSRKMVAEKETLSLNKCPDKMPKRTKLLAQQPL PVHQPHSLVSEGFTVKAMMKNSVVRGPPAAGAFKERPTKPTAFR KFYERGDFPIALEHDSKGNKIAWKVEIEKLDYHHYLPLFFDGLC EMTFPYEFFARQGIHDMLEHGGNKILPVLPQLIIPIKNALNLRN RQVICVTLKVLQHLVVSAEMVGKALVPYYRQILPVLNIFKNMNV NSGDGIDYSQQKRENIGDLIQETLEAFERYGGENAFINIKYVVP TYESCLLN
6331	3	495	QQGQRVRTRGRRACASATPLEGCVDLSYPRTHAALLKVAQMVTL LIAFICVRSSLWTNYSAYSYFEVVTICDLIMILAFYLVHLFRFY RVLTCISWPLSELLHYLIGTLLLLIASIVAASKSYNQSGLVAGA IFGFMATFLCMASIWLSYKISCVTQSTDAAV
6332	1	878	VTESNKFDLVSFIPLLRERIYSNNQYARQFIISWILVLESVPDI NLLDYLPEILDGLFQILGDNGKEIRKMCEVVLGEFLKEIKKNPS SVKFAEMANILVIHCQTTDDLIQLTAMCWMREFIQLAGRVMLPY SSGILTAVLPCLAYDDRKKSIKEVANVCNQSLMKLVTPEDDELD ELRPGQRQAEPTPDDALPKQEGTASGEWTPSLHLTSCRGPREPD VIGVALGPHLSNQDYFMYVTHTIVAATQRSGSSGSPPFCRQDTG KLSTMATHSQLVKTGTGLEPRQAVSSSH
6333	3	1467	TRTPSEAEAGGESPQSCVSAAHSDWTAGKPVSLLAPLIPPRSAG QPLTFSPSGRQPLRSLLVGMCSGSGRRRSSLSPTMRPGTGAERG GLMMGHPGMHYAPMGMHPMGQRANMPPVPHGMMPQMMPPMGGPP MGQMPGMMSSVMPGMMMSHMSQASMQPALPPGVNSMDVAAGTAS

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			GAKSMWTEHKSPDGRTYYYNTETKQSTWEKPDDLKTPAEQLLSK CPWKEYKSDSGKPYYYNSQTKESRWAKPKELEDLEGYQNTIVAG SLITKSNLHAMIKAEESSKQEECTTTSTAPVPTTEIPTTMSTMA AAEAAAAVVAAAAAAAAAAAAANANASTSASNTVSGTVPVVPEP EVTSIVATVVDNENTVTISTEEQAQLTSTPAIQDQSVEVSSNTG EETSKQETVADFTPKKEEEESQPAKKTYTWNTKEEAKQAFKELL KEKRVPSNASWEQAMKMIINDPRYSALAKLSEKKQAFNAYKVQT EKK
6334	17	644	GGNPSGRAAGFAAAAMPSSPLRVAVVCSSNQNRSMEAHNILSKR GFSVRSFGTGTHVKLPGPAPDKPNVYDFKTTYDQMYNDLLRKDK ELYTQNGILHMLDRNKRIKPRPERFQNCKDLFDLILTCEERVYD QVVEDLNSREQETCQPVHVVNVDIQDNHEEATLGAFLICELCQC IQHTEDMENEIDELLQEFEEKSGRTFLHTVCFY
6335	82	529	AARARPGVLCCRLLGAALGDQSRVEMSYIPGQPVTAVVQRVEIH KLRQGENLILGFSIGGGIDQDPSQNPFSEDKTDKGIYVTRVSEG GPAEIAGLQIGDKIMQVNGWDMTMVTHDQARKRLTKRSEEVVRL LVTRQSLQKAVQQSMLS
6336	1003	438	HEPASKGRAEVGNMRLSVAAAISHGRVFRRMGLGPESRIHLLRN LLTGLVRHERIEAPWARVDEMRGYAEKLIDYGKLGDTNERAMRM ADFWLTEKDLIPKLFQVLAPRYKDQTGGYTRMLQIPNRSLDRAK MAVIEYKGNCLPPLPLPRRDSHLTLLNQLLQGLRQDLRQSQEAS NHSSHTAQTPGI
6337	76	524	EGIQMLSVQPDTKPKGCAGCNRKIKDRYLLKALDKYWHEDCLKC ACCDCRLGEVGSTLYTKANLILCRRDYLRLFGVTGNCAACSKLI PAFEMVMRAKDNVYHLDCFACQLCNQRFCVGDKFFLKNNMILCQ TDYEEGLMKEGYAPQVR
6338	66	1349	APNSESGTQGPLPTPANLFWTRRANPDPTTSMSATDRMGPKAVP GLRLALLLLLGLGTPKSGVQGQEGLDFPEYDGVDRVINVNAKNY KNVFKKYEVLALLYHEPPEDDKASQRQFEMEELILELAAQVLED KGVGFGLVDSEKDAAVAKKLGLTEVDSMYVFKGDEVIEYDGEFS ADTIVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKSK DSEHYKAFEDAAEEFHPYIPFFATFDSKGAKKLTLKLNEIDFYE AFMEEPVTIPDKPNSEEEIVNFVEEHRRSTLRKLKPESMYETWE DDMDGIHIVAFAERADPDGFEFLETLKAVAQDNTENPDLSIIWI DPDDFPLLVPYWEKTFDIDLSAPQIGVVNVTDADRLWMEMDDEE DLPSAEELEDWLEDVLEGEINTEDDDDDDDD
6339	246	1813	NRCDRGGGGQAERQAGQGCRTQGAGPGFGFGHSFFSQGAMKAFH TFCVVLLVFGSVSEAKFDDFEDEEDIVEYDDNDFAEFEDVMEDS VTESPQRVIITEDDEDETTVELEGQDENQEGDFEDADTQEGDTE SEPYDDEEFEGYEDKPDTSSSKNKDPITIVDVPAHLQNSWESYY LEILMVTGLLAYIMNYIIGKNKNSRLAQAWFNTHRELLESNFTL VGDDCTNKEATSTGKLNQENEHIYNLWCSGRVCCEGMLIQLRFL KRQDLLNVLARMMRPVSDQVQIKVTMNDEDMDTYVFAVGTRKAL VRLQKEMQDLSEFCSDKPKSGAKYGLPDSLAILSEMGEVTDGMM DTKMVHFLTHYADKIESVHFSDQFSGPKIMQEEGQPLKLPDTKR TLLLTFNVPGSGNTYPKDMEALLPLMNMVIYSIDKAKKFRLNRE GKQKADKNRARVEENFLKLTHVQRQEAAQSRREEKKRAEKERIM NEEDPEKQRRLEEAALRREQKKLEKKQMKMKQIKVKAM
6340	2	583	EACAHTLSCPAFARLGRARRRPWMSHRTSSTFRAERSFHSSSSS SSSSTSSSASRALPAQDPPMEKALSMFSDDFGSFMRPHSEPLAF PARPGGAGNIKTLGDAYEFAVDVRDFSPEDIIVTTSNNHIEVRA EKLAADGTVMNNFAHKCQLPEDVDPTSVTSALREDGSLTIRARR HPHTEHVQQTFRTEIKI
6341	2	645	KMAVLSAPGLRGFRILGLRSSVGPAVQARGVHQSVATDGPSSTQ PALPKARAVAPKPSSRGEYVVAKLDDLVNWARRSSLWPMTFGLA CCAVEMMHMAAPRYDMDRFGVVFRASPRQSDVMIVAGTLTNKMA

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			PALRKVYDQMPEPRYVVSMGSCANGGGYYHYSYSVVRGCDRIVP VDIYIPGCPPTAEALLYGILQLQRKIKRERRLQIWYRR
6342	2	1191	DPRVRAMLATLARVAALRKTCLFSGRGGGRGLWTGRPQSDMNNI KPLEGVKILDLTRVLAGPFATMNLGDLGAEVIKVERPGAGDDTR TWGPPFVGTESTYYLSVNRNKKSIAVNIKDPKGVKIIKELAAVC DVFVENYVPGKLSAMGLGYEDIDEIAPHIIYCSITGYGQTGPIS QRAGYDAVASAVSGLMHITGPEVACLSIIAANYLIGQKEAKRWG TAHGSIVPYQAFKTKDGYIVVGAGNNQQFATVCKILDLPELIDN SKYKTNHLRVHNRKELIKILSERFEEELTSKWLYLFEGSGVPYG PINNMKNVFAEPQVLHNGLVMEMEHPTVGKISVPGPAVRYSKFK MSEARPPPLLGQHTTHILKEVLRYDDRAIGELLSAGVVDQHETH
6343	2	936	GTAMVSDEDELNLLVIVVDANPIWWGKQALKESQFTLSKCIDAV MVLGNSHLFMNRSNKLAVIASHIQESRFLYPGKNGRLGDFFGDP GNPPEFNPSGSKDGKYELLTSANEVIVEEIKDLMTKSDIKGQHT ETLLAGSLAKALCYIHRMNKEVKDNQEMKSRILVIKAAEDSALQ YMNFMNVIFAAQKQNILIDACVLDSDSGLLQQACDITGGLYLKV PQMPSLLQYLLWVFLPDQDQRSQLILPPPVHVDYRAACFCHRNL IEIGYVCSVCLSIFCNFSPICTTCETAFKISLPPVLKAKKKKLK VSA
6344	2508	147	TMPTATLGNLRGYGMASPGLAAPSLTPPQLATPNLQQFFPQATR QSLLGPPPVGVPMNPSQFNLSGRNPQKQARTSSSTTPNRKDSSS QTMPVEDKSDPPEGSEEAAEPRMDTPEDQDLPPCPEDIAKEKRT PAPEPEPCEASELPAKRLRSSEEPTEKEPPGQLQVKAQPQARMT VPKQTQTPDLLPEALEAQVLPRFQPRVLQVCAQVQSQTQPRIPS TDTQVQPKLQKQAQTQTSPEHLVLQQKQVQPQLQQEAEPQKQVQ PQVQPQAHSQGPRQVQLQQEAEPLKQVQPQVQPQAHSQPPRQVQ LQLQKQVQTQTYPQVHTQAQPSVQPQEHPPAQVSVQPPEQTHEQ PHTQPQVSLLAPEQTPVVVHVCGLEMPPDAVEAGGGMEKTLPEP VGTQVSMEEIQNESACGLDVGCENRAREMPGVWGAGGSLKVTI LQSSDSRAFSTVPLTPVPRPSDSVSSTPAATSTPSKQALQFFCY ICKASCSSQQEFQDHMSEPQHQQRLGEIQHMSQACLLSLLPVPR DVLETEDEEPPPRRWCNTCQLYYMGDLIQHRRTQDHKIAKQSLR PFCTVCNRYFKTPRKPVEHVKSQGHKDKAKELKSLEKEIAGQDE DHFITVDAVGCFEGDEEEEEDDEDEEEIEVEEELCKQVRSRDIS REEWKGSETYSPNTAYGVDFLVPVMGYICRICHKFYHSNSGAQL SHCKSLGHFENLQKYKAAKNPSPTTRPVSRRCAINARNALTALF TSSGRPPSQPNTQDKTPSKVTARPSQPPLPRRSTRLKT
6345	2	3483	PRVRTKLILLVNDKKRYERVGGGPKRLGRDVEMEEMIEQLQEKV HELEKQNDTLKNRLISAKQQLQTQGYRQTPYNNVQSRINTGRRK ANENAGLQECPRKGIKFQDADVAETPHPMFTKYGNSLLEEARGE IRNLENVIQSQRGQIEELEHLAEILKTQLRRKENEIELSLLQLR EQQATDQRSNIRDNVEMIKLHKQLVEKSNALSAMEGKFIQLQEK QRTLKISHDALMANGDELNMQLKEQRLKCCSLEKQLHSMKFSER RIEELQDRINDLEKERELLKENYDKLYDSAFSAAHEEQWKLKEQ QLKVQIAQLETALKSDLTDKTEILDRLKTERDQNEKLVQENREL QLQYLEQKQQLDELKKRIKLYNQENDINADELSEALLLIKAQKE QKNGDLSFLVKVDSEINKDLERSMRELQATHAETVQELEKTRNM LIMQHKINKDYQMEVEAVTRKMENLQQDYELKVEQYVHLLDIRA ARIHKLEAQLKDIAYGTKQYKFKPEIMPDDSVDEFDETIHLERG ENLFEIHINKVTFSSEVLQASGDKEPVTFCTYAFYDFELQTTPV VRGLHPEYNFTSQYLVHVNDLFLQYIQKNTITLEVHQAYSTEYE TIAACQLKFHEILEKSGRIFCTASLIGTKGDIPNFGTVEYWFRL RVPMDQAIRLYRERAKALGYITSNFKGPEHMQSLSQQAPKTAQL SSTDSTDGNLNELHITIRCCNHLQSRASHLQPHPYVVYKFFDFA DHDTAIIPSSNDPQFDDHMYFPVPMNMDLDRYLKSESLSFYVFD DSDTQENIYIGKVNVPLISLAHDRCISGIFELTDHQKHPAGTIH

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			VILKWKFAYLPPSGSITTEDLGNFIRSEEPEVVQRLPPASSVST LVLAPRPKPRQRLTPVDKKVSFVDIMPHCSDVSQEGSVDEVKEN TEKMQQGKDDVSLLSEGQLAEQSLASSEDETEITEDLEPEVEED MSASDSDDCIIPGPISKNIKQPSEKIRIEIIALSLNDSQVTMDD TIQRLFVECRFYSLPAEETPVSLPKPKSGQWVYYNYSNVIYVDK ENNKAKRDILKAILQKQEMPNRSLRFTVVSDPPEDEQDLECEDI GVAHVDLADMFQEGRDLIEQNIDVFDARADGEGIGKLRVTVEAL HALQSVYKQYRDDLEA
6346	2921	533	QDRRLLRLELQKTCQPTSTMSGSHTPACGPFSALTPSIWPQEIL AKYTQKEESAEQPEFYYDEFGFRVYKEEGDEPGSSLLANSPLME DAPQRLRWQAHLEFTHNHDVGDLTWDKIAVSLPRSEKLRSLVLA GIPHGMRPQLWMRLSGALQKKRNSELSYREIVKNSSNDETIAAK QIEKDLLRTMPSNACFASMGSIGVPRLRRVLRALAWLYPEIGYC QGTGMVAACLLLFLEEEDAFWMMSAIIEDLLPASYFSTTLLGVQ TDQRVLRHLIVQYLPRLDKLLQEHDIELSLITLHWFLTAFASVV DIKLLLRIWDLFFYEGSRVLFQLTLGMLHLKEEELIQSENSASI FNTLSDIPSQMEDAELLLGVAMRLAGSLTDVAVETQRRKHLAYL IADQGQLLGAGTLTNLSQVVRRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVADLREAILRVARHFQCTDPKNCSVVSRQLPGLL PNTALTPPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSH RRRAKALLDFERHDDDELGFRKNDIITIVSQKDEHCWVGELNGL RGWFPAKFVEVLDERSKEYSIAGDDSVTEGVTDLVRGTLCPALK ALFEHGLKKPSLLGGACHPWLFIEEAAGREVERDFASVYSRLVL CKTFRLDEDGKVLTPEELLYRAVQSVNVTHDAVHAQMDVKLRSL ICVGLNEQVLHLWLEVLCSSLPTVEKWYQPWSFLRSPGWVQIKC ELRVLCCFAFSLSQDWELPAKREAQQPLKEGVRDMLVKHHLFSW DVDG
6347	2921	533	QDRRLLRLELQKTCQPTSTMSGSHTPACGPFSALTPSIWPQEIL AKYTQKEESAEQPEFYYDEFGFRVYKEEGDEPGSSLLANSPLME DAPQRLRWQAHLEFTHNHDVGDLTWDKIAVSLPRSEKLRSLVLA GIPHGMRPQLWMRLSGALQKKRNSELSYREIVKNSSNDETIAAK QIEKDLLRTMPSNACFASMGSIGVPRLRRVLRALAWLYPEIGYC QGTGMVAACLLLFLEEEDAFWMMSAIIEDLLPASYFSTTLLGVQ TDQRVLRHLIVQYLPRLDKLLQEHDIELSLITLHWFLTAFASVV DIKLLLRIWDLFFYEGSRVLFQLTLCMLHLKEEELIQSENSASI FNTLSDIPSQMEDAELLLGVAMRLAGSLTDVAVETQRRKHLAYL IADQGQLLGAGTLTNLSQVVRRRTQRRKSTITALLFGEDDLEAL KAKNIKQTELVADLREAILRVARHFQCTDPKNCSVVSRQLPGLL PNTALTPPTPLVGLYSLWQELTPDYSMESHQRDHENYVACSRSH RRRAKALLDFERHDDDELGFRKNDIITIVSQKDEHCWVGELNGL RGWFPAKFVEVLDERSKEYSIAGDDSVTEGVTDLVRGTLCPALK ALFEHGLKKPSLLGGACHPWLFIEEAAGREVERDFASVYSRLVL CKTFRLDEDGKVLTPEELLYRAVQSVNVTHDAVHAQMDVKLRSL ICVGLNEQVLHLWLEVLCSSLPTVEKWYQPWSFLRSPGWVQIKC ELRVLCCFAFSLSQDWELPAKREAQQPLKEGVRDMLVKHHLFSW DVDG
6348	3	3679	AGAEKCFVTLLACFLAKQQNKYKYEECKDLIKSMLRNELQFKEE KLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLN EHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQKLSPENDN DDDEDVQVEVAEKVQKSSSPREMQKAEEKEVPEDSLEECAITCS NSHGPCDSNQPHKNIKITFEEDEVNSTLVVDRESSHDECQDALN ILPVPGPTSSATNVSMVVSAGPLSGEKAAINILEINEKLRPQLA EKKQQFRNLKEKCFLTQLACFLANQQNKYKYEECKDLIKFMLRN ERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGR DASRSLNEHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQK LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEEKEVPEDSLE

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			ECAITCSNSHGPYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW EDAVHIIPENESDDEEEEEKGPVSPRNLQESEEEEVPQESWDEG YSTLSIPPEMLASYKSYSSTFHSLEEQQVCMAVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPEVLQDSLDRCYSTPSGCLELTDS CQPYRSAFYVLEQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALDVDRIKKDQEEEEDQGPPCPRLSRELLEVVEPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE KKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAV DMDEIEKYQEVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYS TPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEE DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYLGLALDVDRIKKDQEEEEDQGPPCPRLSREL LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGEIEKKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCP RLNSMLMEVEEPEVLQDSLDICYSTPSMYFELPDSFQHYRSVFY SFEEEHISFALYVDNRFFTLTVTSLHLVFQMGVIFPQ
6349	3	3679	AGAEKCFVTLLACFLAKQQNKYKYEECKDLIKSMLRNELQFKEE KLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLN EHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQKLSPENDN DDDEDVQVEVAEKVQKSSSPREMQKAEEKEVPEDSLEECAITCS NSHGPCDSNQPHKNIKITFEEDEVNSTLVVDRESSHDECQDALN ILPVPGPTSSATNVSMVVSAGPLSGEKAAINILEINEKLRPQLA EKKQQFRNLKEKCFLTQLACFLANQQNKYKYEECKDLIKFMLRN ERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGR DASRSLNEHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQK LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEEKEVPEDSLE ECAITCSNSHGPYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW EDAVHIIPENESDDEEEEEKGPVSPRNLQESEBEEEVPQESWDEG YSTLSIPPEMLASYKSYSSTFHSLEEQQVCMAVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPEVLQDSLDRCYSTPSGCLELTDS CQPYRSAFYVLEQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALDVDRIKKDQEEEEDQGPPCPRLSRELLEVVEPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE KKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAV DMDEIEKYQEVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYS TPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEE DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYLGLALDVDRIKKDQEEEEDQGPPCPRLSREL LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGEIEKKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCP RLNSMLMEVEEPEVLQDSLDICYSTPSMYFELPDSFQHYRSVFY SFEEEHISFALYVDNRFFTLTVTSLHLVFQMGVIFPQ
6350	3	3679	AGAEKCFVTLLACFLAKQQNKYKYEECKDLIKSMLRNELQFKEE KLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGRDASRSLN EHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQKLSPENDN DDDEDVQVEVAEKVQKSSSPREMQKAEEKEVPEDSLEECAITCS NSHGPCDSNQPHKNIKITFEEDEVNSTLVVDRESSHDECQDALN ILPVPGPTSSATNVSMVVSAGPLSGEKAAINILEINEKLRPQLA EKKQQFRNLKEKCFLTQLACFLANQQNKYKYEECKDLIKFMLRN ERQFKEEKLAEQLKQAEELRQYKVLVHSQERELTQLREKLREGR DASRSLNEHLQALLTPDEPDKSQGQDLQEQLAEGCRLAQHLVQK LSPENDNDDDEDVQVEVAEKVQKSSAPREMPKAEEKEVPEDSLE

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			ECAITCSNSHGPYDSNQPHRKTKITFEEDKVDSTLIGSSSHVEW EDAVHIIPENESDDEEEEEKGPVSPRNLQESEEEEVPQESWDEG YSTLSIPPEMLASYKSYSSTFHSLEEQQVCMAVDIGRHRWDQVK KEDHEATGPRLSRELLDEKGPEVLQDSLDRCYSTPSGCLELTDS CQPYRSAFYVLEQQRVGLAVNMDEIEKYQEVEEDQDPSCPRLSR ELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQPYSSAVYSLEE QYLGLALDVDRIKKDQEEEEDQGPPCPRLSRELLEVVEPEVLQD SLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKHVGFSLDVGEIE KKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCPRLSRELLDEKG PEVLQDSLDRCYSTPSGCLELTDSCQPYRSAFYILEQQRVGLAV DMDEIEKYQEVEEDQDPSCPRLSGELLDEKEPEVLQESLDRCYS TPSGCLELTDSCQPYRSAFYILEQQRVGLAVDMDEIEKYQEVEE DQDPSCPRLSRELLDEKEPEVLQDSLGRCYSTPSGYLELPDLGQ PYSSAVYSLEEQYLGLALDVDRIKKDQEEEEDQGPPCPRLSREL LEVVEPEVLQDSLDRCYSTPSSCLEQPDSCQPYGSSFYALEEKH VGFSLDVGEIEKKGKGKKRRGRRSKKERRRGRKEGEEDQNPPCP RLNSMLMEVEEPEVLQDSLDICYSTPSMYFELPDSFQHYRSVFY SFEEEHISFALYVDNRFFTLTVTSLHLVFQMGVIFPQ
6351	1291	319	REARRRTERSQLGRMLVVEVANGRSLVWGAEAVQALRERLGVGG RTVGALPRGPRQNSRLGLPLLLMPEEARLLAEIGAVTLVSAPRP DSRHHSLALTSFKRQQEESFQEQSALAAEARETRRCELLEKITE GQAAKKQKLEQASGASSSQEAGSSQAAKEDETSDGCASGEQEEA GPSSSQAGPSNGVAPLPRSALLVQLATARPRPVKARPLDWRVQS KDWPHAGRPAHELRYSIYRDLWERGFFLSAAGKFGGDFLVYPGD PLRFHAHYIAQCWAPEDTIPLQDLVAAGRLGTSVRKTLLLCSPQ PDGKVVYTSLQWASLQ
6352	235	923	WSEWLSPCHAAKCKGLSMLRITMKTRAISLAADATEFVQGRSAP AMARSLVHDTVFYCLSVYQVKISPTPQLGAASSAEGHVGQGAPG LMGNMNPEGGVNHENGMNRDGGMIPEGGGGNQEPRQQPQPPPEE PAQAAMEGPQPENMQPRTRRTKFTLLQVEELESVFRHTQYPDVP TRRELAENLGVTEDKVRVWFKNKRARCRRHQRELMLANELRADP DDCVYIVVD
6353	65	672	RFAGAGAIPEARARPPDVQAAEEEKEMDLPDSASRVFCGRILSM VNTDDVNAIILAQKNMLDRFEKTNEMLLNFNNLSSARLQQMSER FLHHTRTLVEMKRDLDSIFRRIRTLKGKLARQHPEAFSHIPEAS FLEEEDEDPIPPSTTTTIATSEQSTGSCDTSPDTVSPSLSPGFE DLSHVQPGSPAINGRSQTDDEEMTGE
6354	965	510	PSLRPMEPTRDCPLFGGAFSAILPMGAIDVSDLRPVPDNQEVFC HPVTDQSLIVELLELQAHVRGEAAARYHFEDVGGVQGARAVHVE SVQPLSLENLALRGRCQEAWVLSGKQQIAKENQQVAKDVTLHQA LLRLPQYQTDLLLTFNQPP
6355	158	1662	RGSSAAFRGSGLRGAMIRRVLPHGMGRGLLTRRPGTRRGGFSLD WDGKVSEIKKKIKSILPGRSCDLLQDTSHLPPEHSDVVIVGGGV LGLSVAYWLKKLESRRGAIRVLVVERDHTYSQASTGLSVGGICQ QFSLPENIQLSLFSASFLRNINEYLAVVDAPPLDLRFNPSGYLL LASEKDAAAMESNVKVQRQEGAKVSLMSPDQLRNKFPWINTEGV ALASYGMEDEGWFDPWCLLQGLRRKVQSLGVLFCQGEVTRFVSS SQRMLTTDDKAVVLKRIHEVHVKMDRSLEYQPVECAIVINAAGA WSAQIAALAGVGEGPPGTLQGTKLPVEPRKRYVYVWHCPQGPGL ETPLVADTSGAYFRREGLGSNYLGGRSPTEQEEPDPANLEVDHD FFQDKVWPHLALRVPAFETLKVQSAWAGYYDYNTFDQNGVVGPH PLVVNMYFATGFSGHGLQQAPGIGRAVAEMVLKGRFQTIDLSPF LFTRFYLGEKIQENNII
6356	354	633	TGLTSSCLPLQVMMTKRTKDMGKFSSVTVSTIDEEEEEIEAREV ADSYAQNAKVIEKQLERKGMSKRRLQELAELEAKKAKMXGTLID NQFK

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6357	2	915	GLLRNMALLVRVLRNQTSISQWVPVCSRLIPVSPTQGQGDRALS RTSQWPQMSQSQACGGSEQIPGIDIQLNRKYHTTRKLSTTKDSP QPVEEKVGAFTKIIEAMGFTGPLKYSKWKIKIAALRMYTSCVEK TDFEEFFLRCQMPDTFNSWFLITLLHVWMCLVRMKQEGRSGKYM CRIIVHFMWEDVQQRGRVMGVNPYILKKNMILMTNHFYAAILGY DEGILSDDHGLAAALWRTFFNRKCEDPRHLELLVEYVRKQIQYL DSMNGEDLLLTGEVSWRPLVEKNPQSILKPIISPTYNDEGL
6358	2009	1040	ASDALHSLSAPVLRLSSRSAARPATMTEQAISFAKDFLAGGIAA AISKTAVAPIERVKLLLQVQHASKQIAADKQYKGIVDCIVRIPK EQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDKHT QFWRYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKSGTE REFRGLGDCLVKITKSDGIRGLYQGFSVSVQGIIIYRAAYFGVY DTAKGMLPDPKNTHIVVSWMIAQTVTAVAGVVSYPFDTVRRRMM MQSGRKGADIMYTGTVDCWRKIFRDEGGKAFFKGAWSNVLRGMG GAFVLVLYDELKKVI
6359	98	1086	VCRQEEEKMKEDCLPSSHVPISDSKSIQKSELLGLLKTYNCYHE GKSFQLRHREEEGTLIIEGLLNIAWGLRRPIRLQMQDDREQVHI, PSTSWMPRRPSCPLKEPSPQNGNITAQGPSIQPVHKAESSTDSS GPLEEAEEAPQLMRTKSDASCMSQRRPKCRAPGEAQRIRRHRFS INGHFYNHKTSVFTPAYGSVTNVRVNSTMTTLQVLTLLLNKFRV EDGPSEFALYIVHESGERTKLKDCEYPLISRILHGPCEKIARIF LMEADLGVEVPHEVAQYIKFEMPVLDSFVEKLKEEEEREIIKLT MKFQALRLTMLQRLEQLVEAK
6360	1	345	GTRGAVPSTLEEVVLPPRSCRVFWIHSGTTMSKVSFKITLTSDP RLPYKVLSVPESTPFTAVLKFAAEEFKVPAATSAIITNDGIGIN PAQTAGNVFLKHGSELRIIPRDRVGSC
6361	615	158	RPGLGQLQHCALAPQAGNRRCRFHGRLHALTRSTHRGKPMSIMQ FKDTLNTPLPDSSPVAVPLGAPIAVASTLSVEHNDGVETGIWAC APGRWRRQITSQEFCHFIQGRCTFTPDDGETLHIQAGDALMLPA NSTGIWDIQETVRKTYVLIL
6362	350	1576	TTMDGSHSAALKLQQLPPTSSSSAVSEASFSYKENLIGALLAIF GHLVVSIALNLQKYCHIRLAGSKDPRAYFKTKTWWLGLFLMLLG ELGVFASYAFAPLSLIVPLSAVSVIASAIIGIIFIKEKWKPKDF LRRYVLSFVGCGLAVVGTYLLVTFAPNSHEKMTGENVTRHLVSW PFLLYMLVEIILFCLLLYFYKEKNANNIVVILLLVALLGSMTVV TVKAVAGMLVLSIQGNLQLDYPIFYVMFVCMVATAVYQAAFLSQ ASQMYDSSLIASVGYILSTTIAITAGAIFYLDFIGEDVLHICMF ALGCLIAFLGVFLITRNRKKPIPFEPYISMDAMPGMQNMHDKGM TVQPELKASFSYGALENNDNISEIYAPATLPVMQEEHGSRSASG VPYRVLEHTKKE
6363	21	1201	RRTRLGSSFPRRRDSSAMESYDVIANQPVVIDNGSGVIKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEEHRGLLSI RYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLD SGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRFLRLYLRKEGY DFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQYYLPDGS TIEIGPSRFRAPELLFRPDLIGEESEGIHEVLVFAIQKSDMDLR RTLFSNIVLSGGSTLFKGFGDRLLSEVKKLAPKDVKIRISAPQE RLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIHRKTF
6364	21	1201	RRTRLGSSFPRRRDSSAMESYDVIANQPVVIDNGSGVIKAGFAG DQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEEHRGLLSI RYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPL NPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLD SGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRFLRLYLRKEGY DFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQYYLPDGS TIEIGPSRFRAPELLFRPDLIGEESEGIHEVLVFAIQKSDMDLR

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			RTLFSNIVLSGGSTLFKGFGDRLLSEVKKLAPKDVKIRISAPQE RLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIHRKTF
6365	234	1989	KHKSRASCAARAQAFGPSREREVHSRFRSGLRRLGESNSGCCTM ASMGTLAFDEYGRPFLIIKDQDRKSRLMGLEALKSHIMAAKAVA NTMRTSLGPNGLDKMMVDKDGDVTVTNDGATILSMMDVDHQIAK LMVELSKSQDDEIGDGTTGVVVLAGALLEEAEQLLDRGIHPIRI ADGYEQAARVAIEHLDKISDSVLVDIKDTEPLIQTAKTTLGSKV VNSCHRQMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLED TKLIKGVIVDKDFSHPQMPKKVEDAKIAILTCPFEPPKPKTKHK LDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLAICQWGFDDE ANHLLLQNNLPAVRWVGGPEIELIAIATGGRIVPRFSELTAEKL GFAGLVQEISFGTTKDKMLVIEQCKNSRAVTIFIRGGNKMIIEE AKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALAVSQEADKCP TLEQYAMRAFADALEVIPMALSENSGMNPIQTMTEVRARQVKEM NPALGIDCLKGTNDMKQQHVIETLIGKKQQISLATQMVRMILK IDDIRKPGESEE
6366	257	1898	GNKEGAHSSTFWVLLSIFLGAVAMLCKEQGITVLGLNAVFDILV IGKFNVLEIVQKVLHKDKSLENLGMLRNGGLLFRMTLLTSGGAG MLYVRWRIMGTGPPAFTEVDNPASFADSMLVRAVNYNYYYSLNA WLLLLCPWWLCFDWSMGCIPLIKSISDWRVIALAALWFCLIGLIC QALCSEDGHKRRILTLGLGFLVIPFLPASNLFFRVGFVVAERVL YLPSVGYCVLLTFGFGALSKHTKKKKLIAAVVLGILFINTLRCV LRSGEWRSEEQLFRSALSVCPLNAKVHYNIGKNLADKGNQTAAI RYYREAVRLNPKYVHAMNNLGNILKERNELQEAEELLSLAVQIQ PDFAAAWMNLGIVQNSLKRFEAAEQSYRTAIKHRRKYPDCYYNL GRLYADLNRHVDALNAWRNATVLKPEHSLAWNNMIILLDNTGNL AQAEAVGREALELIPNDHSLMFSLANVLGKSQKYKESEALFLKA IKANPNAASYHGNLAVLYHRWGHLDLAKKHYEISLQLDPTASGT KENYGLLRRKLELMQKKAV
6367	287	1934	SIGFPVMLVLSILLYTCEMFQDSVAFEDVAVSFTQEEWALLDPS QKNLYRDVMQETFKNLTSVGKTWKVQNIEDEYKNPRRNLSLMRE KLCESKESHHCGESFNQIADDMLNRKTLPGITPCESSVCGEVGT GHSSLNTHIRADTGHKSSEYQEYGENPYRNKECKKAFSYLDSFQ SHDKACTKEKPYDGKECIETFISHSCIQRHRVMHSGDGPYKCKF CGKAFYFLNLCLIHERIHTGVKPYKCKQCGKAFTRSTTLPVHER THTGVNADECKECGNAFSFPSEIRRHKRSHTGEKPYECKQCGKV FISFSSIQYHKMTHTGEKPYECKQCGKAFRCGSHLQKHGRTHTG EKPYECRQCGKAFRCTSDLQRHEKTHTEDKPYGCKQCGKGFRCA SQLQIHERTHSGEKPHECKECGKVFKYFSSLRIHERTHTGEKPH ECKQCGKAFRYFSSLHIHERTHTGDKPYECKVCGKAFTCSSSIR YHERTHTGEKPYECKHCGKAFISNYIRYHERTHTGEKPYQCKQC GKAFIRASSCREHERTHTINR
6368	1	327	RPVPAKLNPRSWPRTAGALPLRPPPLTMAVFHDEVEIEDFQYDE DSETYFYPCPCGDNFSITKEDLENGEDVATCPSCSLIIKVIYDK DQFVCGETVPAPSANKELVKC
6369	1	1745	AGCCRDTRFPTPRGPGSLCHNFCRSAACTVTRTIHGSPREDTGT PRSREMMFQDSVAFEDVAVSFTQEEWALLDPSQKNLYRDVMQET FKNLTSVGKTWKVQNIEDEYKNPRRNLSLMREKLCESKESHHCG ESFNQIADDMLNRKTLPGITPCESSVCGEVGTGHSSLNTHIRAD TGHKSSEYQEYGENPYRNKECKKAFSYLDSFQSHDKACTKEKPY DGKECTETFISHSCIQRHRVMHSGDGPYKCKFCGKAFYFLNLCL IHERIHTGVKPYKCKQCGKAFTRSTTLPVHERTHTGVNADECKE CGNAFSFPSEIRRHKRSHTGEKPYECKQCGKVFISFSSIQYHKM THTGEKPYECKQCGKAFRCGSHLQKHGRTHTGEKPYECRQCGKA FRCTSDLQRHEKTHTEDKPYGCKQCGKGFRCASQLQIHERTHSG EKPHECKECGKVFKYFSSLRIHERTHTGEKPHECKQCGKAFRYF

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			SSLHIHERTHTGDKPYECKVCGKAFTCSSSIRYHERTHTGEKPY ECKHCGKAFISNYIRYHERTHTGEKPYQCKQCGKAFIRASSCRE HERTHTINR
6370	1711	329	FVLSEQRLRTERTWPRSPGLGRGAAAAGARTAGAGLLRLLLGCG ALVGGLRPVTMTTPANAQNASKTWELSLYELHRTPQEAIMDGTE IAVSPRSLHSELMCPICLDMLKNTMTTKECLHRFCSDCIVTALR SGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREEYEAHQD RVLIRLSRLHNQQALSSSIEEGLRMQAMHRAQRVRRPIPGSDQT TTMSGGGEGEPGEGEGDGEDVSSDSAPDSAPGPAPKRPRGGGAGG SSVGTGGGGTGGVGGGAGSEDSGDRGGTLGGGTLGFPSPPGAPS PPEPGGEIELVFRPHPLLVEKGEYCQTRYVKTTGNATVDHLSKY LALRIALERRQQQEAGEPGGPGGGASDTGGPDGCGGEGGGAGGG DGPEEPALPSLEGVSEKQYTIYIAPGGGAFTTLNGSLTLELVNE KFWKVSRPLELCYAPTKDPK
6371	3	288	GVANMSTAMNFGTKSFQPRPPDKGSFPLDHLGECKSFKEKFMKC LHNNNFENALCRKESKEYLECRMERKLMLQEPLEKLGFGDLTSG KSEAKK
6372	2141	625	RVSAIASEGKAEERYKKLEDLLEKSFSLVKMPSLQPVVMCVMKH LPKVPEKKLKLVMADKELYRACAVEVRRQIWQDNQALFGDEVSP LLKQYILEKESALFSTELSVLHNFFSPSPKTRRQGEVVQRLTRM VGKNVKLYDMVLQFLRTLFLRTRNVHYCTLRAELLMSLHDLJVG EICTVDPCHKFTWCLDACIRERFVDSKRARELQGFLDGVKKGQE QVLGDLSMILCDPFAINTLALSTVRHLQELVGQETLPRDSPDLL LLLRLLALGQGAWDMIDSQVFKEPKMEVELITRFLPMLMSFLVD DYTFNVDQKLPAEEKAPVSYPNTLPESFTKFLQEQRMACEVGLY YVLHITKQRNKNALLRLLPGLVETFGDLAFGDIFLHLLTGNLAL LADEFALEDFCSSLFDGFFLTASPRKENVHRHALRLLIHLHPRV APSKLEALQKALEPTGQSGEAVKELYSQLGEKLEQLDHRKPSPA QAAETPALELPLPSVPAPAPL
6373	67	711	PSRAARASPARLPAMVSWIISRLVVLIFGTLYPAYYSYKAVKSK DIKEYVKWMMYWIIFALFTTAETFTDIFLCWFPFYYELKIAFVA WLLSPYTKGSSLLYRKFVHPTLSSKEKEIDDCLVQAKDRSYDAL VHFGKRGLNVAATAAVMAASKGQGALSERLRSFSMQDLTTIRGD GAPAPSGPPPPGSGRASGKHGQPKMSRSASESASSSGTA
6374	535	2105	HKLFCSYISTSEFPSSTRHHSCPTHTFCNYTSSTIFLSSTRDHS CPTHTFCNYTSSTIFLSSTRDHSCPTHTSCNYTSSTIFLSSTRD HSCPTHTSCNYTSSTIFLSSTRDHSCPTHTFCNYPRPIIRLSSC CPAELQTEGSNGKKEVLSGFQVVLEDTVLFPEGGGQPDDRGTIN DISVLRVTRRGEQADHFTQTPLDPGSQVLVRVDWERRFDHMQQH SGQHLITAVADHLFKLKTTSWELGRFRSAIELDTPSMTAEQVAA IEQSVNEKIRDRLPVNVRELSLDDPEVEQVSGRGLPDDHAGPIR VVNIEGVDSNMCCGTHVSNLSDLQVIKILGTEKGKKNRTNLIFL SGNRVLKWMERSHGTEKALTALLKCGAEDHVEAVKKLQNSTKIL QKNNLNLLRDLAVHIAHSLRNSPDWGCGVVILHRKEGDSEFMNII ANEIGSEETLLFLTVGDEKGGGLFLLAGPPASVETLGPRVAEVL EGKGAGKKGRFQGKATKMSRRMEAQALLQDYISTQSAKE
6375	1	1535	AIMAAATRPVRLPEAGCEGRERCWNPSRSRSHSCEGGLAAWSRT CPGRPRRPGQQVVRGPTMLVTAYLAFVGLLASCLGLELSRCRAK PPGRACSNPSFLRFQLDFYQVYFLALAADWLQAPYLYKLYQHYY FLEGQIAILYVCGLASTVLFGLVASSLVDWLGRKNSCVLFSLTY SLCCLTKLSQDYFVLLVGRALGGLSTALLFSAFEAWYIHEHVER HDFPAEWIPATFARAAFWNHVLAVVAGVAAEAVASWIGLGPVAP FVAAIPLLALAGALALRNWGENYDRQRAFSRTCAGGLRCLLSDR RVLLLGTIQALFESVIFIFVFLWTPVLDPHGAPLGIIFSSFMAA SLLGSSLYRIATSKRYHLQPMHLLSLAVLIVVFSLFMLTFSTSP GQESPVESFIAFLLIELACGLYFPSMSFLRRKVIPETEQAGVLN

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			WFRVPLHSLACLGLLVLHDSDRKTGTRNMFSICSAVMVMALLAV VGLFTVVRHDAELRVPSPTEEPYAPEL
6376	380	1437	ISSTDIDHYRFSFLVNSKMPSKESWSGRKTNRAAVHKSKQEGRQ QDLLIAALGMKLGSPKSSVTIWQPLKLFAYSQLTSLVRRATLKE NEQIPKYEKIHNFKVHTFRGPHWCEYCANFMWGLIAQGVKCADC GLNVHKQCSKMVPNDCKFDLKHVKKVYSCDLTTLVKAHTTKRPM VVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKAD ISVNMYEDINIITGALKLYFRDLPIPLITYDAYPKFIESAKIMD PDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNA ENLGIVFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNEDILF
6377	2311	1845	SRIRRRSSRRPREPPGPSRRRRRRRPDPRTMPSEKTFKQRRTFE QRVEDVRLIREQHPTKIPVIIERYKGEKQLPVLDKTKFLVPDHV NMSELIKIIRRRLQLNANQAFFLLVNGHSMVSVSTPISEVYESE KDEDGFLYMVYASQETFGMKLSV
6378	686	191	GAGPWEAFPDGIGRRSRRARLPQYKRPPGRVGGGDSGRRNMAVA DLALIPDVDIDSDGVFKYVLIRVHSAPRSGAPAAESKEIVRGYK WAEYHADIYDKVSGDMQKQGCDCECLGGGRISHQSQDKKIHVYG YSMAYGPAQHAISTEKIKAKYPDYEVTWANDGY
6379	35	378	ERAGSPSPSRAALRRCAPQRSQAPRWPDRAACRRSFQGSQGRAY LFNSVVNVGCGPAEERVLLTGLHAVADIYCENCKTTLGWKYEHA FESSQKYKEGKYIIELAHMIKDNGWD
6380	1414	462	PAVQGQRGAGPPTGRGSGNMARFALTVVRHGETRFNKEKIIQGQ GVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDLMRTKQTMHGI LERSKFCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREE CPVFTPPGGGETLDQVKMRGIDFFEFLCQLILKEADQKEQFSQGS PSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVVSHGAY MRSLFDYFLTDLKCSLPATLSRSELMSVTPNTGMSLFIINFEEG REVKPTVQCICMNLQDHLNGLTENSLGLNLPSKSNHFEPLKGVP LALFTSLLC
6381	1668	218	AVVRAQGSRGFSGAGWRPRQAAAMNFSEVFKLSSLLCKFSPDGK YLASCVQYRLVVRDVNTLQILQLYTCLDQIQHIEWSADSLFILC AMYKRGLVQVWSLEQPEWHCKIDEGSAGLVASCWSPDGRHILNT TEFHLRITVWSLCTKSVSYIKYPKACLQGITFTRDGRYMALAER RDCKDYVSIFVCSDWQLLRHFDTDTQDLTGIEWAPNGCVLAVWD TCLEYKILLYSLDGRLLSTYSAYEWSLGIKSVAWSPSSQFLAVG SYDGKVRILNHVTWKMITEFGHPAAINJPKIVVYKEAEKSPQLG LGCLSFPPPRAGAGPLPSSESKYEIASVPVSLQTLKPVTDRANP KIGIGMLAFSPDSYFLATRNDNIPNAVVWVDIQKLRLFAVLEQL SPVRAFQWDPQQPRLAICTGGSRLYLWSPAGCMSVQVPGEGDFA VLSLCWHLSGDSMALLSKDHFCLCFLETEAVVGTACRQLGGHT
6382	2	1062	FEEDEDRNLCLIAYPLKGDHGIVDIVDNSDCEPKSKLLRWTTNK KHHVLETEKTPKDWVRQHRKEEKMKSHKLEEEFEWLKKSEVLYY TVEKKGNISSQLKHYNPWSMKCHQQQLQRMKENAKHRNQYKFIL LENLTSRYEVPCVLDLKMGTRQHGDDASEEKAANQIRKCQQSTS AVIGVRVCGMQVYQAGSGQLMFMNKYHGRKLSVQGFKEALFQFF HNGRYLRRELLGPVLKKLTELKAVLERQESYRFYSSSLLVIYDG KERPEVVLDSDAEDLEDLSEESADESAGAYAYKPIGASSVDVRM IDFAHTTCRLYGEDTVVHEGQDAGYIFGLQSLIDIVTEISEESG E
6383	3159	1061	SPAPGRPSPHGSQPAARAAAAPAMPSAKQRGSKGGHGAASPSEK GAHPSAARPLAAPTPAAPACRSPSPGGAPASFPGRAPRSLASQP AARAAAAPAMPSAKQRGSKGGHGAASPSEKGAHPSGGADDVAKK PPPAPQQPPPPPAPHPQQHPQQHPQNQAHGKGGHRGGGGGGGKS SSSSSASAAAAAAAASSSASCSRRLGRALNFLFYLALVAAAAFS GWCVHHVLEEVQQVRRSHQDFSRQREELGQGLQGVEQKVQSLQA TFGTFESILRSSQHKQDLTEKAVKQGESEVSRISEVLQKLQNEI

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			LKDLSDGIHVVKDARERDFTSLENTVEERLTELTKSINDNIAIF TEVQKRSQKEINDMKAKVASLEESEGNKQDLKALKEAVKEIQTS AKSREWDMEALRSTLQTMESDIYTEVRELVSLKQEQQAFKEAAD TERLALQALTEKLLRSEESVSRLPEEIRRLEEELRQLKSDSHGP KEDGGFRHSEAFEALQQKSQGLDSRLQHVEDGVLSMQVASARQT ESLESLLSKSQEHEQRLAALQGRLEGLGSSEADQDGLASTVRSL GETQLVLYGDVEELKRSVGELPSTVESLQKVQEQVHTLLSQDQA QAARLPPQDFLDRLSSLDNLKASVSQVEADLKMLRTAVDSLVAY SVKIETNENNLESAKGLLDDLRNDLDRLFVKVEKIHEKV
6384	738	1904	IWEVPVCLTHLLHLQQANQPLPPPSSSINEEDADEANRAIGEKR AAPDSGKKPKTPKTKQQKDPNEPQKPVSAYALFFRDTQAAIKGQ NPNATFGEVSQIVASMWDSLGEEQKQVYKRKTEAAKKEYLKALA AYRASLVSKAAAESAEAQTIRSVQQTLASTNLTSSLLLNTPLSQ HGTVSASPQTLQQSLPRSIAPKPLTMRLPMNQIVTSVTIAANMP SNIGAPLISSMGTTMVGSAPSTQVSPSVQTQQHQMQLQQQQQQQ QQQMQQMQQQQLQQHQMHQQIQQQMQQQHFQHHMQQHLQQQQQH LQQQINQQQLQQQLQQRLQLQQLQHMQHQSQPSPRQHSPVASQI TSPIPAIGSPQPASQQHQSQIQSQTQTQVLSQVSIF
6385	2	1584	PRVRAADVAAGAQAVVSAGMAKSNGENGPRAPAAGESLSGTRES LAQGPDAATTDELSSLGSDSEANGFAERRIDKFGFIVGSQGAEG ALEEVPLEVLRQRESKWLDMLNNWDKWMAKKHKKIRLRCQKGIP PSLRGRAWQYLSGGKVKLQQNPGKFDELDMSPGDPKWLDVIERD LHRQFPFHEMFVSRGGHGQQDLFRVLKAYTLYRPEEGYCQAQAP IAAVLLMHMPAEQAFWCLVQICEKYLPGYYSEKLEAIQLDGEIL FSLLQKVSPVAHKHLSRQKIDPLLYMTEWPMCAFSRTLPWSSVL RVWDMFFCEGVKIIPRVGLVLLKHALGSPEKVKACQGQYETIER LRSLSPKIMQEAFLVQEVVELPVTERQIEREHLIQLRRWQETRG ELQCRSPPRLHGAKAILDAEPGPRPALQPSPSIRLPLDAPLPGS KAKPKPPKQAQKEQRKQMKGRGQLEKPPAPNQAMVVAAAGDACP PQHVPPKDSAPKDSAPQDLAPQVSAHHRSQESLTSQESEDTYL
6386	819	195	TVCGSFYLGIMQRASRLKRELHMLATEPPPGITCWQDKDQMDDL RAQILGGANTPYEKGVFKLEVIIPERYPFEPPQIRFLTPIYHPN IDSAGRICLDVLKLPPKGAWRPSLNIATVLTSIQLLMSEPNPDD PLMADISSEFKYNKPAFLKNARQWTEKHARQKQKADEEEMLDNL PEAGDSRVIHNSTQKRKASQLVGIEKKFHPDV
6387	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAELVKR KQELAETLANLERQIYAFEGSYLEDTQMYGNIIRGWDRYLTNQK NSNSKNDRRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEK REPGSGTESDTSPDFHNQENEPSQEDPEDLDGSVQGVKPQKAAS STSSGSHHSSHKKRKNKNRHSPSGMFDYDFEIDLKLNKKPRADY
6388	1	662	PGPTHASADAWADAWAQPNMAMHNKAAPPQIPDTRRELAELVKR KQELAETLANLERQIYAFEGSYLEDTQMYGNIIRGWDRYLTNQK NSNSKNDRRNRKFKEAERLFSKSSVTSAAAVSALAGVQDQLIEK REPGSGTESDTSPDFHNQENEPSQEDPEDLDGSVQGVKPQKAAS STSSGSHHSSHKKRKNKNRHSPSGMFDYDFEIDLKLNKKPRADY
6389	1074	497	AEPGDRMAGHRLVLVLGDLHIPHRCNSLPAKFKKLLVPGKIQHI LCTGNLCTKESYDYLKTLAGDVHIVRGDFDENLNYPEQKVVTVG QFKIGLIHGHQVIPWGDMASLALLQRQFDVDILISGHTHKFEAF EHENKFYINPGSATGAYNALETNIIPSFVLMDIQASTVVTYVYQ LIGDDVKVERIEYKKP
6390	158	535	GEERKEGRAPGKAFAPERNPAKMEKEETTRELLLPNWQGSGSHG LTIAQRDDGVFVQEVTQNSPAARTGVVKEGDQIVGATIYFDNLQ SGEVTQLLNTMGHHTVGLKLHRKGDRFFPSLGQTWDP
6391	5386	2897	VRWNSKTECYLSIQTQENFPANLNELVNCIVISSLVTTQRKLKA MSLLGSRNQLARAVLNPNPMDFCTKDLLTTTSERIIAYLRDFNE DQKKAIETAYAMVKHSPSVAKICLIHGPPGTGKSKTIVGLLYRL

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			LTENQRKGHSDENSNAKIKQNRVLVCAPSNAAVDELMKKIILEF KEKCKDKKNPLGNCGDINLVRLGPEKSINSEVLKFSLDSQVNHR MKKELPSHVQAMHKRKEFLDYQLDELSRQRALCRGGREIQRQEL DENISKVSKERQELASKIKEVQGRPQKTQSIIILESHIICCTLS TSGGLLLESAFRGQGGVPFSCVIVDEAGQSCEIETLTPLIHRCN KLILVGDPKQLPPTVISMKAQEYGYDQSMMARFCRLLEENVEHN MISRLPILQLTVQYRMHPDICLFPSNYVYNRNLKTNRQTEAIRC SSDWPFQPYLVFDVGDGSERRDNDSYINVQEIKLVMEIIKLIKD KRKDVSFRNIGIITHYKAQKTMIQKDLDKEFDRKGPAEVDTVDA FQGRQKDCVIVTCVRANSIQGSIGFLASLQRLNVTITRAKYSLF ILGHLRTLMENQHWNQLIQDAQKRGAIIKTCDKNYRHDAVKILK LKPVLQRSLTHPPTIAPEGSRPQGGLPSSKLDSGFAKTSVAASL YHTPSDSKEITLTVTSKDPERPPVHDQLQDPRLLKRMGIEVKGG IFLWDPQPSSPQHPGATPPTGEPGFPVVHQDLSHVQQPAAVVAA LSSHKPPVRGEPPAASPEASTCQSKCDDPEEELCHRREARAFSE GEQEKCGSETHHTRRNSRWDKRTLEQEDSSSKKRKLL
6392	972	186	GRTGVDLASSMAHRLQIRLLTWDVKDTLLRLRHPLGEAYATKAR AHGLEVEPSALECQGFRQAYRAQSHSFPNYGLSHGLTSRQWWLDV VLQTFHLAGVQDAQAVAPIAEQLYKDFSHPCTWQVLDGAEDTLR ECRTRGLRLAVISNFDRRLEGILGGLGLREHFDFVLTSEAAGWP KPDPRIFQEALRLAHMEPVVAAHVGDNYLCDYQGPRAVGMHSFL VVGPQALDPVVRDSVPKEHILPSLAHLLPALDCLEGSTPGL
6393	2017	730	TGGSKMAAVATCGSVAASTGSAVATASKSNVTSFQRRGPRASVT NDSGPRLVSIAGTRPSVRNGQLLVSTGLPALDQLLGGGLAVGTV LLIEEDKYNIYSPLLFKYFLAEGIVNGHTLLVASAKEDPANILQ ELPAPLLDDKCKKEFDEDVYNHKTPESNIKMKIAWRYQLLPKME IGPVSSSRFGHYYDASKRMPQELIEASNWHGFFLPEKISSTLKV EPCSLTPGYTKLLQFIQNIIYEEGFDGSNPQKKQRNILRIGIQN LGSPLWGDDICCAENGGNSHSLTKFLYVLRGLLRTSLSACIITM PTHLIQNKAIIARVTTLSDVVVGLESFIGSERETNPLYKDYHGL IHIRQIPRLNNLICDESDVKDLAFKLKRKLFTIERLHLPPDLSD TVSRSSKMDLAESAKRLGPGCGMMAGGKKHLDF
6394	1418	511	GAAAGGEGARRRPAAMATVMAATAAERAVLEEEFRWLLHDEVHA VLKQLQDILKEASLRFTLPGSGTEGPAKQENFILGSCGTDQVKG VLTLQGDALSQADVNLKMPRNNQLLHFAFREDKQWKLQQIQDAR NHVSQAIYLLTSRDQSYQFKTGAEVLKLMDAVMLQLTRARNRLT TPATLTLPEIAASGLTRMFAPALPSDLLVNVYINLNKLCLTVYQ LHALQPNSTKNFRPAGGAVLHSPGAMFEWGSQRLEVSHVHKVEC VIPWLNDALVYFTVSLQLCQQLKDKISVFSSYWSYRPF
6395	13	658	PSGRPTRPLCCAARRGAARHGGSVSGWPAGRTPTETSNPGSSVM ESVTFEDVAVEFIQEWALLDSARRSLCKYRMLDQCRTLASRGTP PCKPSCVSQLGQRAEPKATERGILRATGVAWESQLKPEELPSMQ DLLEEASSRDMQMGPGLFLRMQLVPSIEERETPLTREDRPALQE PPWSLGCTGLKAAMQIQRVVIPVPTLGHRNPWVARDSGE
6396	1	1221	ANILSSPSKRGQKGTLIGYSPEGTPLYNFMGDAFQHSSQSIPRF IKESLKQILEESDSRQIFYFLCLNLLFTFVELFYGVLTNSLGLI SDGFHMLFDCSALVMGLFAALMSRWKATRIFSYGYGRIEILSGF INGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGLIVNL IGICAFSHAHSHAHGASQGSCHSSDHSHSHHMHGHSDHGHGHSH GSAGGGMNANMRGVFLHVLADTLGSIGVIVSTVLIEQFGWFIAD PLCSLFIAILIFLSVVPLIKDACQVLLLRLPPEYEKELHIALEK IQKIEGLISYRDPHFWRHSASIVAGTIHIQVTSDVLEQRIVQQV TGILKDAGVNNLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMES MKYCKDGTYIM
6397	391	122	GAGGVGRFEAIRAPARMIEVVCNDRLGKKVRVKCNTDDTIGDLK KLIAAQTGTRWNKIVLKKWYTIFKDHVSLGDYEIHDGMNLELYY